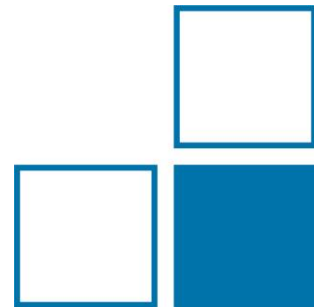


# Server basierte Middleware zur Verknüpfung von Messsystemen, Datenbanken und dem DCC

Tabellierte Daten (Excel, Open Office CSV)  
automatisierbar in den DCC integrieren

Benedikt Seeger, 1.73



DCC table Tool

localhost:5006/DCCTableTool

ultra low cost... 5.14 3D Rough... ptb\_material D Gmail YouTube Maps

Version: 0.1.0 Support E-Mail: [benedikt.seeger@ptb.de](mailto:benedikt.seeger@ptb.de) Tel: 0049 531 592 1223 Repo URL: <https://gitlab1.ptb.de/Seeger/pydcccanddbtools> Issue tracker: [Here](#)

File Upload Data view an table building Insert table in DCC XML

Select Data file:

Choose File No file chosen

Optional select conversion control file:

Choose File No file chosen

Select sheet ▼

DCC table Tool

localhost:5006/DCCTableTool

ultra low cost... 5.14 3D Rough... ptb\_material D Gmail YouTube Maps

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Choose File No file chosen

Select sheet ▼

Daten  
Hochladen

DCC table Tool

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File Upload Data view an table building Insert table in DCC XML

Select Data file:

Choose File No file chosen

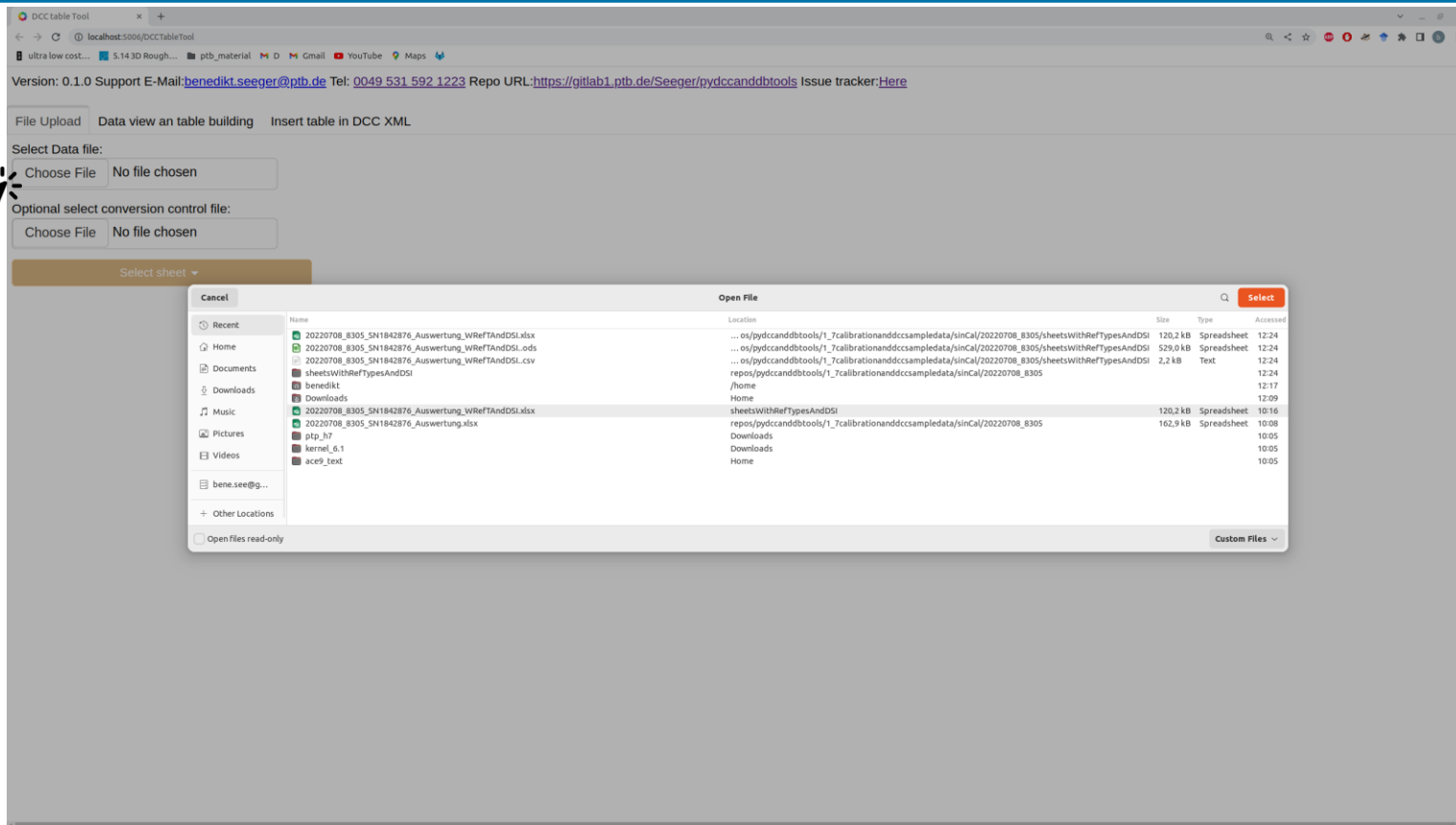
Optional select conversion control file:

Choose File No file chosen

Select sheet ▼

Optional  
Steuer-Datei

Daten  
Hochladen



DCC table Tool

localhost:5000/DCCTableTool

Version: 0.1.0 Support E-Mail: [benedikt.seeger@ptb.de](mailto:benedikt.seeger@ptb.de) Tel: 0049 531 592 1223 Repo URL: <https://gitlab1.ptb.de/Seeger/pydccanddbtools> Issue tracker: [Here](#)

File Upload | Data view an table building | Insert table in DCC XML

Select Data file:

Choose File 20220708\_...ndDSI.xlsx

Optional select conversion control file:

Choose File No file chosen

Select sheet ▼

- Messkette (S\_ua)
- ERGBNISSE**
- Verstärker (S\_uq)
- Vergleich PTB-Accelerator Meas
- Historie
- Diag\_Betrag
- Diag\_Betrag\_Linear
- Diag\_Phase
- Diag\_Messkette
- QM\_Frequenzen
- Aufnehmer (S\_qa)

Sheet  
Auswählen

## Tabellen Header

DCC table Tool

[localhost:5006/DCCTableTool](#)

ultra low cost... 5.14 3D Rough... ptb\_material Gmail YouTube Maps

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File Upload Data view an table building Insert table in DCC XML

#	Frequenz	Beschleunigungsamplitude	Ladungsübertragungskoeffizient Bet	rel. expanded Uncertainty	Measurement Device Magnitude	Phasenverzögerung	Expanded Uncertainty	Measurement Device Phase Shift
0	1 hertz	\metre\second\tothe{-2}	\pico\coulomb\metre\tothe{-1}\s...	\percent	NaN	\degree	\degree	NaN
1	vib_frequency	vib_accelerationAmplitude	vib_magnitudeTransferCoeffic...	NaN	NaN	vib_phase	NaN	NaN
2	{"de": "Frequenz", "en": "Freque...	{"de": "Beschleunigungsamplitu...	{"de": "Ladungsübertragungskoe...	NaN	NaN	{"de": "Phasenverzögerung", "e...	NaN	NaN

#	Frequenz	Beschleunigungsamplitude	Ladungsübertragungskoeffizient Bet	rel. expanded Uncertainty	Measurement Device Magnitude	Phasenverzögerung	Expanded Uncertainty	Measurement Device Phase Shift
0	10	5	0.13017373820962	0.1	HF-B-NME	-0.0178268004716813	0.2	HF-B-NME
1	12.5	5	0.13017373820962	0.1	HF-B-NME	-0.0252851128610132	0.2	HF-B-NME
2	16	5	0.130159471683534	0.1	HF-B-NME	-0.0235627768644804	0.2	HF-B-NME
3	20	10	0.130159056747483	0.1	HF-B-NME	-0.0177440345198079	0.2	HF-B-NME
4	25	10	0.130166297211551	0.1	HF-B-NME	-0.00610266110331281	0.2	HF-B-NME
5	31.5	10	0.13016757529951	0.1	HF-B-NME	-0.0115056740909267	0.2	HF-B-NME
6	40	10	0.130174660951257	0.1	HF-B-NME	-0.0155847621896328	0.2	HF-B-NME
7	50	50	0.130157589574794	0.1	HF-B-NME	-0.00812679049360554	0.2	HF-B-NME
8	63	50	0.130126298816025	0.1	HF-B-NME	0.000591641718557412	0.2	HF-B-NME

Create dis columns:
 

Add dsi column

Create dsi tables:
 

Add dsi table

Tabellen  
Header

Daten  
Ansicht

DCC table Tool

localhost:5006/DCCTableTool

Version: 0.1.0 Support E-Mail: [benedikt.seeger@ptb.de](mailto:benedikt.seeger@ptb.de) Tel: 0049 531 592 1223 Repo URL: <https://gitlab1.ptb.de/Seeger/pydccanddbtools> Issue tracker: [Here](#)

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#	Frequenz	Beschleunigungsamplitude	Ladungsübertragungskoeffizient Bei	rel. expanded Uncertainty	Measurement Device Magnitude	Phasenverzögerung	Expanded Uncertainty	Measurement Device Phase Shift
0	1 hertz	\metre\second\tothe{-2}	\pico\coulomb\metre\tothe{-1}\s...	\percent	NaN	\degree	\degree	NaN
1	vib_frequency	vib_accelerationAmplitude	vib_magnitudeTransferCoeFCha...	NaN	NaN	vib_phase	NaN	NaN
2	{"de": "Frequenz", "en": "Freque...	{"de": "Beschleunigungsamplitu...	{"de": "Ladungsübertragungskoe...	NaN	NaN	{"de": "Phasenverzögerung", "e...	NaN	NaN

#	Frequenz	Beschleunigungsamplitude	Ladungsübertragungskoeffizient Bei	rel. expanded Uncertainty	Measurement Device Magnitude	Phasenverzögerung	Expanded Uncertainty	Measurement Device Phase Shift
0	10	5	0.13017373820962	0.1	HF-B-NME	-0.0178268004716813	0.2	HF-B-NME
1	12.5	5	0.13017373820962	0.1	HF-B-NME	-0.0252851128610132	0.2	HF-B-NME
2	16	5	0.130159471683534	0.1	HF-B-NME	-0.0235627768644804	0.2	HF-B-NME
3	20	10	0.130159056747483	0.1	HF-B-NME	-0.0177440345198079	0.2	HF-B-NME
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7	50	50	0.130157589574794	0.1	HF-B-NME	-0.00812679049360554	0.2	HF-B-NME
8	63	50	0.130126298816025	0.1	HF-B-NME	0.000591641718557412	0.2	HF-B-NME

Create dis columns:

Add dsi column

Create dsi tables:

Add dsi table



DCC table Tool
localhost:5006/DCCTableTool
ultra low cost... 5.14 3D Rough... ptb\_material Gmail YouTube Maps
Version: 0.1.0 Support E-Mail: [benedikt.seeger@ptb.de](mailto:benedikt.seeger@ptb.de) Tel: 0049 531 592 1223 Repo URL: <https://gitlab1.ptb.de/Seeger/pydccanddbtools> Issue tracker: [Here](#)

File Upload
Data view an table building
Insert table in DCC XML

#	Frequenz	Beschleunigungsamplitude	Ladungsübertragungskoeffizient Bei	rel. expanded Uncertainty	Measurement Device Magnitude	Phasenverzögerung	Expanded Uncertainty	Measurement Device Phase Shift
0	1 hertz	1metre\second\tothe{-2}	1pico\coulomb\metre\tothe{-1}\s...	percent	NaN	degree	degree	NaN
1	vib_frequency	vib_accelerationAmplitude	vib_magnitudeTransferCoeffic...	NaN	NaN	vib_phase	NaN	NaN
2	{"de": "Frequenz", "en": "Freque...	{"de": "Beschleunigungsamplitu...	{"de": "Ladungsübertragungskoe...	NaN	NaN	{"de": "Phasenverzögerung", "e...	NaN	NaN

#	Frequenz	Beschleunigungsamplitude	Ladungsübertragungskoeffizient Bei	rel. expanded Uncertainty	Measurement Device Magnitude	Phasenverzögerung	Expanded Uncertainty	Measurement Device Phase Shift
0	10	5	0.13017373820962	0.1	HF-B-NME	-0.0178268004716813	0.2	HF-B-NME
1	12.5	5	0.13017373820962	0.1	HF-B-NME	-0.0252851128610132	0.2	HF-B-NME
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3	20	10	0.130159056747483	0.1	HF-B-NME	-0.0177440345198079	0.2	HF-B-NME
4	25	10	0.130166297211551	0.1	HF-B-NME	-0.00610266110331281	0.2	HF-B-NME
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7	50	50	0.130157589574794	0.1	HF-B-NME	-0.00812679049360554	0.2	HF-B-NME
8	63	50	0.130126298816025	0.1	HF-B-NME	0.000591641718557412	0.2	HF-B-NME

Create dis columns:

Add dsi column

Create dsi tables:

Add dsi table

DSI Einheiten

DCC  
Ref-type

Namen Für DCC  
Spalten  
(Mehrsprachig)

DCC table Tool
localhost:5000/DCCTableTool
ultra low cost... 5.14 3D Rough... ptb\_material Gmail YouTube Maps
Version: 0.1.0 Support E-Mail: [benedikt.seeger@ptb.de](mailto:benedikt.seeger@ptb.de) Tel: 0049 531 592 1223 Repo URL: <https://gitlab1.ptb.de/Seeger/pydccanddbtools> Issue tracker: [Here](#)

File Upload
Data view an table building
Insert table in DCC XML

#	Frequenz	Beschleunigungsamplitude	Ladungsübertragungskoeffizient Bei	rel. expanded Uncertainty	Measurement Device Magnitude	Phasenverzögerung	Expanded Uncertainty	Measurement Device Phase Shift
0	1 hertz	1 metre\second\to the{-2}	1 pico\coulomb\metre\to the{-1}\s...	%percent	NaN	\degree	\degree	NaN
1	vib_frequency	vib_accelerationAmplitude	vib_magnitudeTransferCoe\Cha...	NaN	NaN	vib_phase	NaN	NaN
2	{\"de\": \"Frequenz\", \"en\": \"Freque...	{\"de\": \"Beschleunigungsamplitu...	{\"de\": \"Ladungsübertragungskoo...	NaN	NaN	{\"de\": \"Phasenverzögerung\", \"e...	NaN	NaN

#	Frequenz	Beschleunigungsamplitude	Ladungsübertragungskoeffizient Bei	rel. expanded Uncertainty	Measurement Device Magnitude	Phasenverzögerung	Expanded Uncertainty	Measurement Device Phase Shift
0	10	5	0.13017373820962	0.1	HF-B-NME	-0.0178268004716813	0.2	HF-B-NME
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2	16	5	0.130159471683534	0.1	HF-B-NME	-0.0235627768644804	0.2	HF-B-NME
3	20	10	0.130159056747483	0.1	HF-B-NME	-0.0177440345198079	0.2	HF-B-NME
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5	31.5	10	0.13016757529951	0.1	HF-B-NME	-0.0115056740909267	0.2	HF-B-NME
6	40	10	0.130174660951257	0.1	HF-B-NME	-0.0155847621896328	0.2	HF-B-NME
7	50	50	0.130157589574794	0.1	HF-B-NME	-0.00812679049360554	0.2	HF-B-NME
8	63	50	0.130126298816025	0.1	HF-B-NME	0.000591641718557412	0.2	HF-B-NME

Create dis columns:

Add dsi column

Create dsi tables:

Add dsi table

DSI Einheiten

DCC  
Ref-type

Namen Für DCC  
Spalten  
(Mehrsprachig)

**i** Diese Bezeichnungen werden im DCC nicht Verwendet

# PTB DSI Spalten erstellen

DCC table Tool

localhost:5006/DCCTableTool

Version: 0.1.0 Support E-Mail: [benedikt.seeger@ptb.de](mailto:benedikt.seeger@ptb.de) Tel: 0049 531 592 1223 Repo URL: <https://gitlab1.ptb.de/Seeger/pydccanddbtools> Issue tracker: [Here](#)

File Upload Data view an table building Insert table in DCC XML

#	Frequenz	Beschleunigungsamplitude	Ladungsübertragungskoeffizient Bei	rel. expanded Uncertainty	Measurement Device Magnitude	Phasenverzögerung	Expanded Uncertainty	Measurement Device Phase Shift
0	1 hertz	\metre\second\to\the{-2}	\pico\coulomb\metre\to\the{-1}\s...	\percent	NaN	\degree	\degree	NaN
1	vib_frequency	vib_accelerationAmplitude	vib_magnitudeTransferCoeefCha...	NaN	NaN	vib_phase	NaN	NaN
2	{ "de": "Frequenz", "en": "Freque...	{ "de": "Beschleunigungsamplitu...	{ "de": "Ladungsübertragungskoe...	NaN	NaN	{ "de": "Phasenverzögerung", "e...	NaN	NaN

#	Frequenz	Beschleunigungsamplitude	Ladungsübertragungskoeffizient Bei	rel. expanded Uncertainty	Measurement Device Magnitude	Phasenverzögerung	Expanded Uncertainty	Measurement Device Phase Shift
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2	16	5	0.130159471683534	0.1	HF-B-NME	-0.0235627768644804	0.2	HF-B-NME
3	20	10	0.130159056747483	0.1	HF-B-NME	-0.0177440345198079	0.2	HF-B-NME
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7	50	50	0.130157589574794	0.1	HF-B-NME	-0.00812679049360554	0.2	HF-B-NME
8	63	50	0.130126298816025	0.1	HF-B-NME	0.000591641718557412	0.2	HF-B-NME

Create dis columns:

Add dsi column

Create dsi tables:

Add dsi table

Spalte  
erstellen

# PTB DSI Spalten erstellen

DCC table Tool

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File Upload Data view an table building Insert table in DCC XML

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0	1 hertz	1 metre\second to the [-2]	1 pico\coulomb\metre to the [-1] s...	%percent	NaN	1 degree	1 degree	NaN
1	vib_frequency	vib_accelerationAmplitude	vib_magnitudeTransferCoeffCha...	NaN	NaN	vib_phase	NaN	NaN
2	{ "de": "Frequenz", "en": "Freque...	{ "de": "Beschleunigungsamplitu...	{ "de": "Ladungsübertragungskoe...	NaN	NaN	{ "de": "Phasenverzögerung", "e...	NaN	NaN

#	Frequenz	Beschleunigungsamplitude	Ladungsübertragungskoeffizient Bei	rel. expanded Uncertainty	Measurement Device Magnitude	Phasenverzögerung	Expanded Uncertainty	Measurement Device Phase Shift
0	10	5	0.13017373820962	0.1	HF-B-NME	-0.0178268004716813	0.2	HF-B-NME
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5	31.5	10	0.13016757529951	0.1	HF-B-NME	-0.0115056740909267	0.2	HF-B-NME
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7	50	50	0.130157589574794	0.1	HF-B-NME	-0.00812679049360554	0.2	HF-B-NME
8	63	50	0.130126298816025	0.1	HF-B-NME	0.000591641718557412	0.2	HF-B-NME

Create dis columns:

Select values col. ▼ Select uncertainties col. ▼ Create Vector

Use create disColumn button after selecting values column, uncertainties column and uncertainties parameter

Add dsi column

Create dsi tables:

Add dsi table

Werte auswählen

# PTB DSI Spalten erstellen

DCC table Tool

localhost:5006/DCCTableTool

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File Upload Data view an table building Insert table in DCC XML

#	Frequenz	Beschleunigungsamplitude	Ladungsübertragungskoeffizient Bei	rel. expanded Uncertainty	Measurement Device Magnitude	Phasenverzögerung	Expanded Uncertainty	Measurement Device Phase Shift
0	hertz	metre/secondtothe{-2}	picocoulomb/metre/tothe{-1}s...	percent	NaN	degree	degree	NaN
1	vib_frequency	vib_accelerationAmplitude	vib_magnitudeTransferCoeftCha...	NaN	NaN	vib_phase	NaN	NaN
2	{ "de": "Frequenz", "en": "Freque...	{ "de": "Beschleunigungsamplitu...	{ "de": "Ladungsübertragungsako...	NaN	NaN	{ "de": "Phasenverzögerung", "e...	NaN	NaN

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5	31.5	10	0.13016757529951	0.1	HF-B-NME	-0.0115056740909267	0.2	HF-B-NME
6	40	10	0.130174660951257	0.1	HF-B-NME	-0.0155847621896328	0.2	HF-B-NME
7	50	50	0.130157589574794	0.1	HF-B-NME	-0.00812679049360554	0.2	HF-B-NME
8	63	50	0.130126298816025	0.1	HF-B-NME	0.000591641718557412	0.2	HF-B-NME

Create dis columns:

Select values col. ▼ Select uncertainties col. ▼ Create Vector

Frequenz  
Beschleunigungsamplitude  
Ladungsübertragungskoeffizient Betrag  
rel. expanded Uncertainty  
Measurement Device Magnitude  
Phasenverzögerung  
Expanded Uncertainty

column, uncertainties column and uncertainties parameter

Werte  
auswählen

# PTB DSI Spalten erstellen

DCC table Tool

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File Upload Data view an table building Insert table in DCC XML

#	Frequenz	Beschleunigungsamplitude	Ladungsübertragungskoeffizient Bei	rel. expanded Uncertainty	Measurement Device Magnitude	Phasenverzögerung	Expanded Uncertainty	Measurement Device Phase Shift
0	1 hertz	1 metre\second to the [-2]	1 pico\coulomb\metre to the [-1] s...	%percent	NaN	1 degree	1 degree	NaN
1	vib_frequency	vib_accelerationAmplitude	vib_magnitudeTransferCoeffic...	NaN	NaN	vib_phase	NaN	NaN
2	{ "de": "Frequenz", "en": "Freque...	{ "de": "Beschleunigungsamplitu...	{ "de": "Ladungsübertragungskoe...	NaN	NaN	{ "de": "Phasenverzögerung", "e...	NaN	NaN

#	Frequenz	Beschleunigungsamplitude	Ladungsübertragungskoeffizient Bei	rel. expanded Uncertainty	Measurement Device Magnitude	Phasenverzögerung	Expanded Uncertainty	Measurement Device Phase Shift
0	10	5	0.13017373820962	0.1	HF-B-NME	-0.0178268004716813	0.2	HF-B-NME
1	12.5	5	0.13017373820962	0.1	HF-B-NME	-0.0252851128610132	0.2	HF-B-NME
2	16	5	0.130159471683534	0.1	HF-B-NME	-0.0235627768644804	0.2	HF-B-NME
3	20	10	0.130159056747483	0.1	HF-B-NME	-0.0177440345198079	0.2	HF-B-NME
4	25	10	0.130166297211551	0.1	HF-B-NME	-0.00610266110331281	0.2	HF-B-NME
5	31.5	10	0.13016757529951	0.1	HF-B-NME	-0.0115056740909267	0.2	HF-B-NME
6	40	10	0.130174660951257	0.1	HF-B-NME	-0.0155847621896328	0.2	HF-B-NME
7	50	50	0.130157589574794	0.1	HF-B-NME	-0.00812679049360554	0.2	HF-B-NME
8	63	50	0.130126298816025	0.1	HF-B-NME	0.000591641718557412	0.2	HF-B-NME

Create dis columns:

Val: Frequenz ▼ Select uncertainties col. ▼ Create Vector

Use create disColumn button after selecting values column, uncertainties column and uncertainties parameter

Add dsi column

Create dsi tables:

Add dsi table

Werte  
auswählen

# PTB DSI Spalten erstellen

DCC table Tool

localhost:5000/DCCTableTool

Version: 0.1.0 Support E-Mail: [benedikt.seeger@ptb.de](mailto:benedikt.seeger@ptb.de) Tel: 0049 531 592 1223 Repo URL: <https://gitlab1.ptb.de/Seeger/pydccanddbtools> Issue tracker: [Here](#)

File Upload Data view an table building Insert table in DCC XML

#	Frequenz	Beschleunigungsamplitude	Ladungsübertragungskoeffizient Bei	rel. expanded Uncertainty	Measurement Device Magnitude	Phasenverzögerung	Expanded Uncertainty	Measurement Device Phase Shift
0	1 hertz	1 metre\second to the [-2]	1 pico\coulomb\metre to the [-1] s...	%percent	NaN	1 degree	1 degree	NaN
1	vib_frequency	vib_accelerationAmplitude	vib_magnitudeTransferCoeffCha...	NaN	NaN	vib_phase	NaN	NaN
2	{ "de": "Frequenz", "en": "Freque...	{ "de": "Beschleunigungsamplitu...	{ "de": "Ladungsübertragungskoe...	NaN	NaN	{ "de": "Phasenverzögerung", "e...	NaN	NaN

#	Frequenz	Beschleunigungsamplitude	Ladungsübertragungskoeffizient Bei	rel. expanded Uncertainty	Measurement Device Magnitude	Phasenverzögerung	Expanded Uncertainty	Measurement Device Phase Shift
0	10	5	0.13017373820962	0.1	HF-B-NME	-0.0178268004716813	0.2	HF-B-NME
1	12.5	5	0.13017373820962	0.1	HF-B-NME	-0.0252851128610132	0.2	HF-B-NME
2	16	5	0.130159471683534	0.1	HF-B-NME	-0.0235627768644804	0.2	HF-B-NME
3	20	10	0.130159056747483	0.1	HF-B-NME	-0.0177440345198079	0.2	HF-B-NME
4	25	10	0.130166297211551	0.1	HF-B-NME	-0.00610266110331281	0.2	HF-B-NME
5	31.5	10	0.13016757529951	0.1	HF-B-NME	-0.0115056740909267	0.2	HF-B-NME
6	40	10	0.130174660951257	0.1	HF-B-NME	-0.0155847621896328	0.2	HF-B-NME
7	50	50	0.130157589574794	0.1	HF-B-NME	-0.00812679049360554	0.2	HF-B-NME
8	63	50	0.130126298816025	0.1	HF-B-NME	0.000591641718557412	0.2	HF-B-NME

Create dis columns:

Val: Frequenz Select uncertainties col. Create Vector

Use create disColumn button after selecting val column, uncertainties column and uncertainties parameter

Add dis column

Create dsi tables:

Add dsi table

Unsicherheits  
- Daten  
auswählen



# PTB DSI Spalten erstellen

DCC table Tool

localhost:5000/DCCTableTool

Version: 0.1.0 Support E-Mail: [benedikt.seeger@ptb.de](mailto:benedikt.seeger@ptb.de) Tel: 0049 531 592 1223 Repo URL: <https://gitlab1.ptb.de/Seeger/pydccanddbtools> Issue tracker: [Here](#)

File Upload | Data view an table building | Insert table in DCC XML

#	Frequenz	Beschleunigungsamplitude	Ladungsübertragungskoeffizient Bei	rel. expanded Uncertainty	Measurement Device Magnitude	Phasenverzögerung	Expanded Uncertainty	Measurement Device Phase Shift
0	hertz	metre/secondtothe{-2}	picocoulomb/metre/tothe{-1}s...	percent	NaN	degree	degree	NaN
1	vib_frequency	vib_accelerationAmplitude	vib_magnitudeTransferCoeftCha...	NaN	NaN	vib_phase	NaN	NaN
2	{"de": "Frequenz", "en": "Freque...	{"de": "Beschleunigungsamplitu...	{"de": "Ladungsübertragungsksko...	NaN	NaN	{"de": "Phasenverzögerung", "e...	NaN	NaN

#	Frequenz	Beschleunigungsamplitude	Ladungsübertragungskoeffizient Bei	rel. expanded Uncertainty	Measurement Device Magnitude	Phasenverzögerung	Expanded Uncertainty	Measurement Device Phase Shift
0	10	5	0.13017373820962	0.1	HF-B-NME	-0.0178268004716813	0.2	HF-B-NME
1	12.5	5	0.13017373820962	0.1	HF-B-NME	-0.0252851128610132	0.2	HF-B-NME
2	16	5	0.130159471683534	0.1	HF-B-NME	-0.0235627768644804	0.2	HF-B-NME
3	20	10	0.130159056747483	0.1	HF-B-NME	-0.0177440345198079	0.2	HF-B-NME
4	25	10	0.130166297211551	0.1	HF-B-NME	-0.00610266110331281	0.2	HF-B-NME
5	31.5	10	0.13016757529951	0.1	HF-B-NME	-0.0115056740909267	0.2	HF-B-NME
6	40	10	0.130174660951257	0.1	HF-B-NME	-0.0155847621896328	0.2	HF-B-NME
7	50	50	0.130157589574794	0.1	HF-B-NME	-0.00812679049360554	0.2	HF-B-NME
8	63	50	0.130126298816025	0.1	HF-B-NME	0.000591641718557412	0.2	HF-B-NME

Create dis columns:

Val: Frequenz ▼ | Select uncertainties col. ▼ | Create Vector

Use create disColumn button after selecting val. No Uncer

Add dsi column

Create dsi tables:

Add dsi table

Frequenz

Beschleunigungsamplitude

Ladungsübertragungskoeffizient Betrag

rel. expanded Uncertainty

Measurement Device Magnitude

Phasenverzögerung

Unsicherheits  
- Daten  
auswählen

Unsicherheit ist nicht  
zwingend nötig.

# PTB DSI Spalten erstellen

DCC table Tool

localhost:5000/DCCTableTool

Version: 0.1.0 Support E-Mail: [benedikt.seeger@ptb.de](mailto:benedikt.seeger@ptb.de) Tel: 0049 531 592 1223 Repo URL: <https://gitlab1.ptb.de/Seeger/pydccanddbtools> Issue tracker: [Here](#)

File Upload Data view an table building Insert table in DCC XML

#	Frequenz	Beschleunigungsamplitude	Ladungsübertragungskoeffizient Bei	rel. expanded Uncertainty	Measurement Device Magnitude	Phasenverzögerung	Expanded Uncertainty	Measurement Device Phase Shift
0	hertz	metre\second\tothe{-2}	pico\coulomb\metre\tothe{-1}\s...	percent	NaN	degree	degree	NaN
1	vib_frequency	vib_accelerationAmplitude	vib_magnitudeTransferCoeffic...	NaN	NaN	vib_phase	NaN	NaN
2	{"de": "Frequenz", "en": "Freque...	{"de": "Beschleunigungsamplitu...	{"de": "Ladungsübertragungskoe...	NaN	NaN	{"de": "Phasenverzögerung", "e...	NaN	NaN

#	Frequenz	Beschleunigungsamplitude	Ladungsübertragungskoeffizient Bei	rel. expanded Uncertainty	Measurement Device Magnitude	Phasenverzögerung	Expanded Uncertainty	Measurement Device Phase Shift
0	10	5	0.13017373820962	0.1	HF-B-NME	-0.0178268004716813	0.2	HF-B-NME
1	12.5	5	0.13017373820962	0.1	HF-B-NME	-0.0252851128610132	0.2	HF-B-NME
2	16	5	0.130159471683534	0.1	HF-B-NME	-0.0235627768644804	0.2	HF-B-NME
3	20	10	0.130159056747483	0.1	HF-B-NME	-0.0177440345198079	0.2	HF-B-NME
4	25	10	0.130166297211551	0.1	HF-B-NME	-0.00610266110331281	0.2	HF-B-NME
5	31.5	10	0.13016757529951	0.1	HF-B-NME	-0.0115056740909267	0.2	HF-B-NME
6	40	10	0.130174660951257	0.1	HF-B-NME	-0.0155847621896328	0.2	HF-B-NME
7	50	50	0.130157589574794	0.1	HF-B-NME	-0.00812679049360554	0.2	HF-B-NME
8	63	50	0.130126298816025	0.1	HF-B-NME	0.000591641718557412	0.2	HF-B-NME

Create dis columns:

Val: Frequenz No Uncer Create Vector

Use create vector button after selecting values column, uncertainties column and uncertainties parameter

Add dsi column

Create dsi tables:

Add dsi table

DSI Spalte Erstellen

# PTB DSI Spalten erstellen

DCC table Tool

localhost:5000/DCCTableTool

ultra low cost... 5.14 3D Rough... ptb\_material Gmail YouTube Maps

Version: 0.1.0 Support E-Mail: [benedikt.seeger@ptb.de](mailto:benedikt.seeger@ptb.de) Tel: 0049 531 592 1223 Repo URL: <https://gitlab1.ptb.de/Seeger/pydccanddbtools> Issue tracker: [Here](#)

File Upload Data view an table building Insert table in DCC XML

#	Frequenz	Beschleunigungsamplitude	Ladungsübertragungskoeffizient Bei	rel. expanded Uncertainty	Measurement Device Magnitude	Phasenverzögerung	Expanded Uncertainty	Measurement Device Phase Shift
0	1 hertz	1/metre\second\tothe{-2}	1/pico\coulomb\metre\tothe{-1}\s...	1percent	NaN	1degree	1degree	NaN
1	vib_frequency	vib_accelerationAmplitude	vib_magnitudeTransferCoeFCha...	NaN	NaN	vib_phase	NaN	NaN
2	{ "de": "Frequenz", "en": "Freque...	{ "de": "Beschleunigungsamplitu...	{ "de": "Ladungsübertragungsk...	NaN	NaN	{ "de": "Phasenverzögerung", "e...	NaN	NaN

#	Frequenz	Beschleunigungsamplitude	Ladungsübertragungskoeffizient Bei	rel. expanded Uncertainty	Measurement Device Magnitude	Phasenverzögerung	Expanded Uncertainty	Measurement Device Phase Shift
0	10	5	0.13017373820962	0.1	HF-B-NME	-0.0178268004716813	0.2	HF-B-NME
1	12.5	5	0.13017373820962	0.1	HF-B-NME	-0.0252851128610132	0.2	HF-B-NME
2	16	5	0.130159471683534	0.1	HF-B-NME	-0.0235627768644804	0.2	HF-B-NME
3	20	10	0.130159056747483	0.1	HF-B-NME	-0.0177440345198079	0.2	HF-B-NME
4	25	10	0.130166297211551	0.1	HF-B-NME	-0.00610266110331281	0.2	HF-B-NME
5	31.5	10	0.13016757529951	0.1	HF-B-NME	-0.0115056740909267	0.2	HF-B-NME
6	40	10	0.130174660951257	0.1	HF-B-NME	-0.0155847621896328	0.2	HF-B-NME
7	50	50	0.130157589574794	0.1	HF-B-NME	-0.00812679049360554	0.2	HF-B-NME
8	63	50	0.130126298816025	0.1	HF-B-NME	0.000591641718557412	0.2	HF-B-NME

Create dis columns:

Val: Frequenz No Uncer Create Vector

Frequenz in Hertz len=31 10.0 12.5 16.0 20.0 ... 10000.0 8000.0 6300.0 5000.0

Add dis column

Create dsi tables:

Add dsi table

Verwendete  
Daten  
werden  
gefärbt

# PTB DSI Spalten erstellen

DCC table Tool

localhost:5006/DCCTableTool

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#	Frequenz	Beschleunigungsamplitude	Ladungsübertragungskoeffizient Bei	rel. expanded Uncertainty	Measurement Device Magnitude	Phasenverzögerung	Expanded Uncertainty	Measurement Device Phase Shift
0	10	5	0.13017373820962	0.1	HF-B-NME	-0.0178268004716813	0.2	HF-B-NME
1	12.5	5	0.13017373820962	0.1	HF-B-NME	-0.0252851128610132	0.2	HF-B-NME
2	16	5	0.130159471683534	0.1	HF-B-NME	-0.0235627768644804	0.2	HF-B-NME
3	20	10	0.130159056747483	0.1	HF-B-NME	-0.0177440345198079	0.2	HF-B-NME
4	25	10	0.130166297211551	0.1	HF-B-NME	-0.00610266110331281	0.2	HF-B-NME
5	31.5	10	0.13016757529951	0.1	HF-B-NME	-0.0115056740909267	0.2	HF-B-NME
6	40	10	0.130174660951257	0.1	HF-B-NME	-0.0155847621896328	0.2	HF-B-NME
7	50	50	0.130157589574794	0.1	HF-B-NME	-0.00812679049360554	0.2	HF-B-NME
8	63	50	0.130126298816025	0.1	HF-B-NME	0.000591641718557412	0.2	HF-B-NME

Create dis columns:

Val: Frequenz No Uncer Create Vector

Frequenz in Hertz len=31 10.0 12.5 16.0 20.0 ... 10000.0 8000.0 6300.0 5000.0

Val: Beschleunigungsamplitude No Uncer Create Vector

Beschleunigungsamplitude in 1metre(secondtothe[-2]) len=31 5 5 5 10 ... 100 100 100 100

Val: Ladungsübertragungskoeffizient Betrag Select uncertainties col. Create Vector

Use create disColumn button after selecting values column,uncertainties column and uncertainties parameter

Add dsi column

Create dsi tables:

Add dsi table

Unsicherheits-Daten auswählen

# PTB DSI Spalten erstellen

DCC table Tool

localhost:5000/DCCTableTool

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#	Frequenz	Beschleunigungsamplitude	Ladungsübertragungskoeffizient Bei	rel. expanded Uncertainty	Measurement Device Magnitude	Phasenverzögerung	Expanded Uncertainty	Measurement Device Phase Shift
0	10	5	0.13017373820962	0.1	HF-B-NME	-0.0178268004716813	0.2	HF-B-NME
1	12.5	5	0.13017373820962	0.1	HF-B-NME	-0.0252851128610132	0.2	HF-B-NME
2	16	5	0.130159471683534	0.1	HF-B-NME	-0.0235627768644804	0.2	HF-B-NME
3	20	10	0.130159056747483	0.1	HF-B-NME	-0.0177440345198079	0.2	HF-B-NME
4	25	10	0.130166297211551	0.1	HF-B-NME	-0.00610266110331281	0.2	HF-B-NME
5	31.5	10	0.13016757529951	0.1	HF-B-NME	-0.0115056740909267	0.2	HF-B-NME
6	40	10	0.130174660951257	0.1	HF-B-NME	-0.0155847621896328	0.2	HF-B-NME
7	50	50	0.130157589574794	0.1	HF-B-NME	-0.00812679049360554	0.2	HF-B-NME
8	63	50	0.130126298816025	0.1	HF-B-NME	0.000591641718557412	0.2	HF-B-NME

Create dis columns:

Val: Frequenz No Uncer Create Vector

Frequenz in Hertz len=31 10.0 12.5 16.0 20.0 ... 10000.0 8000.0 6300.0 5000.0

Val: Beschleunigungsamplitude No Uncer Create Vector

Beschleunigungsamplitude in 'metre/secondtothe{-2}' len=31 5 5 10 ... 100 100 100 100

Val: Ladungsübertragungskoeffizient Betrag Uncer: rel. expanded Uncertainty

absolute rel relPercent relPPM

Uncer Distribution: normal Coverage probability 0.0-1.0 coverage Factor 0.0-Inf

0.95 2 Create Vector

Use create disColumn button after selecting values column,uncertainties column and uncertainties parameter

Add dsi column

Create dsi tables:

Add dsi table

Unsicherheits-Parameter auswählen

# PTB DSI Spalten erstellen

DCC table Tool

localhost:5000/DCCTableTool

#	Frequenz	Beschleunigungsamplitude	Ladungsübertragungskoeffizient Bei	rel. expanded Uncertainty	Measurement Device Magnitude	Phasenverzögerung	Expanded Uncertainty	Measurement Device Phase Shift
0	10	5	0.13017373820962	0.1	HF-B-NME	-0.0178268004716813	0.2	HF-B-NME
1	12.5	5	0.13017373820962	0.1	HF-B-NME	-0.0252851128610132	0.2	HF-B-NME
2	16	5	0.130159471683534	0.1	HF-B-NME	-0.0235627768644804	0.2	HF-B-NME
3	20	10	0.130159056747483	0.1	HF-B-NME	-0.0177440345198079	0.2	HF-B-NME
4	25	10	0.130166297211551	0.1	HF-B-NME	-0.00610266110331281	0.2	HF-B-NME
5	31.5	10	0.13016757529951	0.1	HF-B-NME	-0.0115056740909267	0.2	HF-B-NME
6	40	10	0.130174660951257	0.1	HF-B-NME	-0.0155847621896328	0.2	HF-B-NME
7	50	50	0.130157589574794	0.1	HF-B-NME	-0.00812679049360554	0.2	HF-B-NME
8	63	50	0.130126298816025	0.1	HF-B-NME	0.000591641718557412	0.2	HF-B-NME

Create dis columns:

Val: Frequenz ▾ No Uncer ▾ Create Vector

Frequenz in Hertz len=31 10.0 12.5 16.0 20.0 ... 10000.0 8000.0 6300.0 5000.0

Val: Beschleunigungsamplitude ▾ No Uncer ▾ Create Vector

Beschleunigungsamplitude in 'metre/secondtothe{-2}' len=31 5 5 10 ... 100 100 100 100

Val: Ladungsübertragungskoeffizient Betrag ▾ Uncer: rel. expanded Uncertainty ▾

Uncer Distribution: normal Coverage probability 0.0-1.0 0.95 coverage Factor 0.0-Inf 2

☐ absolute ☒ rel ☐ relPPM

Use create disColumn button after selecting values column, uncertainty column and uncertainty parameter

Add dsi column

Create dsi tables:

Add dsi table

Die Einheiten „percent“ oder „one“ führen automatisch zu relativen Unsicherheiten

Bei Absoluten Unsicherheiten werden die Einheiten auf Konsistenz (Gleichheit) geprüft

Unsicherheits-Parameter auswählen

# PTB DSI Spalten erstellen

DCC table Tool

localhost:5000/DCCTableTool

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#	Frequenz	Beschleunigungsamplitude	Ladungsübertragungskoeffizient Bei	rel. expanded Uncertainty	Measurement Device Magnitude	Phasenverzögerung	Expanded Uncertainty	Measurement Device Phase Shift
0	10	5	0.13017373820962	0.1	HF-B-NME	-0.0178268004716813	0.2	HF-B-NME
1	12.5	5	0.13017373820962	0.1	HF-B-NME	-0.0252851128610132	0.2	HF-B-NME
2	16	5	0.130159471683534	0.1	HF-B-NME	-0.0235627768644804	0.2	HF-B-NME
3	20	10	0.130159056747483	0.1	HF-B-NME	-0.0177440345198079	0.2	HF-B-NME
4	25	10	0.130166297211551	0.1	HF-B-NME	-0.00610266110331281	0.2	HF-B-NME
5	31.5	10	0.13016757529951	0.1	HF-B-NME	-0.0115056740909267	0.2	HF-B-NME
6	40	10	0.130174660951257	0.1	HF-B-NME	-0.0155847621896328	0.2	HF-B-NME
7	50	50	0.130157589574794	0.1	HF-B-NME	-0.00812679049360554	0.2	HF-B-NME
8	63	50	0.130126298816025	0.1	HF-B-NME	0.000591641718557412	0.2	HF-B-NME

Create dis columns:

Val: Frequenz No Uncer Create Vector

Frequenz in Hertz len=31 10.0 12.5 16.0 20.0 ... 10000.0 8000.0 6300.0 5000.0

Val: Beschleunigungsamplitude No Uncer Create Vector

Beschleunigungsamplitude in 1metre1second1tothe{-2} len=31 5 5 10 ... 100 100 100 100

Val: Ladungsübertragungskoeffizient Betrag Uncer: rel. expanded Uncertainty

absolute  
rel  
☒ relPercent  
relPPM

Uncer Distribution: normal Coverage probability 0.0-1.0 0.95 coverage Factor 0.0-Inf 2

Create Vector

Use create disColumn button after selecting values column,uncertainties column and uncertainties parameter

Add dsi column

Create dsi tables:

Add dsi table

DSI Spalte  
Erstellen

# PTB DSI Spalten erstellen

DCC table Tool

localhost:5006/DCCTableTool

4	25	10	0.130166297211551	0.1	HF-B-NME	-0.00610266110331281	0.2	HF-B-NME
5	31.5	10	0.13016757529951	0.1	HF-B-NME	-0.0115056740909267	0.2	HF-B-NME
6	40	10	0.130174660951257	0.1	HF-B-NME	-0.0155847621896328	0.2	HF-B-NME
7	50	50	0.130157589574794	0.1	HF-B-NME	-0.00812679049360554	0.2	HF-B-NME
8	63	50	0.130126298816025	0.1	HF-B-NME	0.000591641718557412	0.2	HF-B-NME

Create dis columns:

Val: Frequenz ▼ No Uncer ▼ Create Vector

Frequenz in Hertz len=31 10.0 12.5 16.0 20.0 ... 10000.0 8000.0 6300.0 5000.0

Val: Beschleunigungsamplitude ▼ No Uncer ▼ Create Vector

Beschleunigungsamplitude in  $\text{metre/second}^2$  len=31 5 5 5 10 ... 100 100 100 100

Val: Ladungsübertragungskoeffizient Betrag ▼ Uncer: rel. expanded Uncertainty ▼

absolute  
rel  
☒ relPercent  
relPPM

Uncer Distribution: normal Coverage probability 0.0-1.0 0.95 coverage Factor 0.0-Inf 2 Create Vector

Ladungsübertragungskoeffizient Betrag in  $\text{picocoulomb/metre}^2$  len=31 0.13+/-0.00 0.13+/-0.00 0.13+/-0.00 0.13+/-0.00 ... 0.15+/-0.00 0.14+/-0.00 0.14+/-0.00 0.13+/-0.00

Val: Phasenverzögerung ▼ Uncer: Expanded Uncertainty ▼

absolute  
rel  
relPercent  
relPPM

Uncer Distribution: normal Coverage probability 0.0-1.0 0.95 coverage Factor 0.0-Inf 2 Create Vector

Use create disColumn button after selecting values column, uncertainties column and uncertainties parameter

Add dsi column

Create dsi tables:

Add dsi table

DSI Spalte  
Erstellen



DCC table Tool
localhost:5000/DCCTableTool
ultra low cost... 5.14 3D Rough... ptb\_material Gmail YouTube Maps

26	4000	100	0.133002608820648	0.1	HF-B-NME	-0.0024424359667421	0.5	HF-B-NME
27	5000	100	0.134668315577044	0.1	HF-B-NME	-0.00805657931334736	0.5	HF-B-NME
28	6300	100	0.137532790322452	0.3	HF-B-NME	0.00999557435488896	0.5	HF-B-NME
29	8000	100	0.14285226525535	0.3	HF-B-NME	-1.96973347455992	0.5	HF-B-NME
30	10000	100	0.149676114798897	0.3	HF-B-NME	-0.0948050594133179	0.5	HF-B-NME

Create dis columns:

Val: Frequenz
No Uncer
Create Vector
Frequenz in hertz len=31 10.0 12.5 16.0 20.0 ... 10000.0 8000.0 6300.0 5000.0

Val: Beschleunigungsamplitude
No Uncer
Create Vector
Beschleunigungsamplitude in 1metre\second\tothe{-2} len=31 5 5 5 10 ... 100 100 100 100

Val: Ladungsübertragungskoeffizient Betrag
Uncer: rel. expanded Uncertainty
absolute rel relPercent relPPM
Uncer Distribution: normal
Coverage probability 0.0-1.0 0.95
coverage Factor 0.0-Inf 2
Create Vector
Ladungsübertragungskoeffizient Betrag in 1pico\coulomb\1metre\tothe{-1}\second\tothe{2} len=31 0.13+/-0.00 0.13+/-0.00 0.13+/-0.00 0.13+/-0.00 ... 0.15+/-0.00 0.14+/-0.00 0.14+/-0.00 0.13+/-0.00

Val: Phasenverzögerung
Uncer: Expanded Uncertainty
absolute rel relPercent relPPM
Uncer Distribution: normal
Coverage probability 0.0-1.0 0.95
coverage Factor 0.0-Inf 2
Create Vector
Phasenverzögerung in 1degree len=31 -0.02+/-0.20 -0.03+/-0.20 -0.02+/-0.20 -0.02+/-0.20 ... -0.09+/-0.50 -1.97+/-0.50 0.01+/-0.50 -0.01+/-0.50

Add dsi column

Create dsi tables:

Add dsi table

# PTB DSI Spalten erstellen

DCC table Tool

20220708\_8305\_5N1842

localhost:5006/DCCTableTool

ultra low cost... 5.14 3D Rough... ptb\_material Gmail YouTube Maps

Version: 0.1.0 Support E-Mail: [benedikt.seeger@ptb.de](mailto:benedikt.seeger@ptb.de) Tel: 0049 531 592 1223 Repo URL: <https://gitlab1.ptb.de/Seeger/pydccanddbtools> Issue tracker: [Here](#)

File Upload Data view as table building Insert table in DCC XML

#	Frequenz	Beschleunigungsamplitude	Ladungsübertragungskoeffizient Betrag	rel. expanded Uncertainty	Measurement Device Magnitude	Phasenverzögerung	Expanded Uncertainty	Measurement Device Phase Shift
0	1 hertz	1metresecondtothe[-2]	1picocoulomb1metretothe[-1]secondtothe[2]	1percent	NaN	1degree	1degree	NaN
1	vib_frequency	vib_accelerationAmplitude	vib_magnitudeTransferCoeffCharge	NaN	NaN	vib_phase	NaN	NaN
2	["de": "Frequenz", "en": "Frequency"]	["de": "Beschleunigungsamplitude", "en": "Acceleration amplitude"]	["de": "Ladungsübertragungskoeffizient Betrag", "en": "Charge transfer coefficient magnitude"]	NaN	NaN	["de": "Phasenverzögerung", "en": "Phase delay"]	NaN	NaN

#	Frequenz	Beschleunigungsamplitude	Ladungsübertragungskoeffizient Betrag	rel. expanded Uncertainty	Measurement Device Magnitude	Phasenverzögerung	Expanded Uncertainty	Measurement Device Phase Shift
0	10	5	0.13017373820962	0.1	HF-B-NME	-0.0178268004716813	0.2	HF-B-NME
1	12.5	5	0.13017373820962	0.1	HF-B-NME	-0.0252851128610132	0.2	HF-B-NME
2	16	5	0.130159471683534	0.1	HF-B-NME	-0.0235627768644804	0.2	HF-B-NME
3	20	10	0.130159056747483	0.1	HF-B-NME	-0.0177440345198079	0.2	HF-B-NME
4	25	10	0.130166297211551	0.1	HF-B-NME	-0.00610266110331281	0.2	HF-B-NME
5	31.5	10	0.13016757529951	0.1	HF-B-NME	-0.0115056740909267	0.2	HF-B-NME
6	40	10	0.130174660951257	0.1	HF-B-NME	-0.0155847621896328	0.2	HF-B-NME
7	50	50	0.130157589574794	0.1	HF-B-NME	-0.00812679049360554	0.2	HF-B-NME
8	63	50	0.130176298816025	0.1	HF-B-NME	0.000591641718557412	0.2	HF-B-NME

Create dis columns:

Val: Frequenz

No Uncer

Create Vector

Frequenz in hertz len=31 10.0 12.5 16.0 20.0 ... 10000.0 8000.0 6300.0 5000.0

Val: Beschleunigungsamplitude

No Uncer

Create Vector

Beschleunigungsamplitude in 1metresecondtothe[-2] len=31 5 5 5 10 ... 100 100 100 100

Val: Ladungsübertragungskoeffizient Betrag

Uncer: rel. expanded Uncertainty

absolute

rel

relPercent

relPPM

Uncer Distribution: normal

Coverage probability 0.0-1.0 0.95

coverage Factor 0.0-Inf 2

Create Vector

Ladungsübertragungskoeffizient Betrag in 1picocoulomb1metretothe[-1]secondtothe[2] len=31 0.13+/-0.00 0.13+/-0.00 0.13+/-0.00 0.13+/-0.00 ... 0.15+/-0.00 0.14+/-0.00 0.14+/-0.00 0.13+/-0.00

control (6).json

control (5).json

20220708\_8...xml

Show all

**i** Anhand der Farben die richtige Zuordnung überprüfen

# PTB DSI Tabelle erstellen

DCC table Tool

localhost:5000/DCCTableTool

26	4000	100	0.133002608820648	0.1	HF-B-NME	-0.0024424359667421	0.5	HF-B-NME
27	5000	100	0.134668315577044	0.1	HF-B-NME	-0.00805657931334736	0.5	HF-B-NME
28	6300	100	0.137532790322452	0.3	HF-B-NME	0.00999557435488896	0.5	HF-B-NME
29	8000	100	0.14285226525535	0.3	HF-B-NME	-1.96973347455992	0.5	HF-B-NME
30	10000	100	0.149676114798897	0.3	HF-B-NME	-0.0948050594133179	0.5	HF-B-NME

Create dis columns:

Val: Frequenz ▼ No Uncer ▼ Create Vector

Frequenz in Hertz len=31 10.0 12.5 16.0 20.0 ... 10000.0 8000.0 6300.0 5000.0

Val: Beschleunigungsamplitude ▼ No Uncer ▼ Create Vector

Beschleunigungsamplitude in  $\text{m} \cdot \text{second}^{-2}$  len=31 5 5 5 10 ... 100 100 100 100

Val: Ladungsübertragungskoeffizient Betrag ▼ Uncer: rel. expanded Uncertainty ▼

absolute  
rel  
☒ relPercent  
relPPM

Uncer Distribution: normal Coverage probability 0.0-1.0 0.95 coverage Factor 0.0-Inf 2 Create Vector

Ladungsübertragungskoeffizient Betrag in  $\text{picoCoulomb} \cdot \text{metre}^{-1} \cdot \text{second}^{-2}$  len=31 0.13+/-0.00 0.13+/-0.00 0.13+/-0.00 0.13+/-0.00 ... 0.15+/-0.00 0.14+/-0.00 0.14+/-0.00 0.13+/-0.00

Val: Phasenverzögerung ▼ Uncer: Expanded Uncertainty ▼

absolute  
rel  
relPercent  
☒ relPPM

Uncer Distribution: normal Coverage probability 0.0-1.0 0.95 coverage Factor 0.0-Inf 2 Create Vector

Phasenverzögerung in  $^\circ$  len=31 -0.02+/-0.20 -0.03+/-0.20 -0.02+/-0.20 -0.02+/-0.20 ... -0.09+/-0.50 -1.97+/-0.50 0.01+/-0.50 -0.01+/-0.50

Add dsi column

Create dsi tables:

Add dsi table

Tabelle  
Erstellen

# PTB DSI Tabelle erstellen

DCC table Tool

localhost:5006/DCCTableTool

8	63	50	0.130126298816025	0.1	HF-B-NME	0.000591641718557412	0.2	HF-B-NME
---	----	----	-------------------	-----	----------	----------------------	-----	----------

Create dis columns:

Val: Frequenz ▼ No Uncer ▼ Create Vector

Frequenz in Hertz len=31 10.0 12.5 16.0 20.0 ... 10000.0 8000.0 6300.0 5000.0

Val: Beschleunigungsamplitude ▼ No Uncer ▼ Create Vector

Beschleunigungsamplitude in  $\text{metre}\backslash\text{second}\backslash\text{tothe}\{-2\}$  len=31 5 5 5 10 ... 100 100 100 100

Val: Ladungsübertragungskoeffizient Betrag ▼ Uncer: rel. expanded Uncertainty ▼

absolute ☐ rel ☐ relPercent ☒ relPPM ☐

Uncer Distribution: normal Coverage probability 0.0-1.0 0.95 coverage Factor 0.0-Inf 2 Create Vector

Ladungsübertragungskoeffizient Betrag in  $\text{picocolomb}\backslash\text{metre}\backslash\text{tothe}\{-1\}\backslash\text{second}\backslash\text{tothe}\{2\}$  len=31 0.13+/-0.00 0.13+/-0.00 0.13+/-0.00 0.13+/-0.00 ... 0.15+/-0.00 0.14+/-0.00 0.14+/-0.00 0.13+/-0.00

Val: Phasenverzögerung ▼ Uncer: Expanded Uncertainty ▼

absolute ☒ rel ☐ relPercent ☐ relPPM ☐

Uncer Distribution: normal Coverage probability 0.0-1.0 0.95 coverage Factor 0.0-Inf 2 Create Vector

Phasenverzögerung in  $\text{degree}$  len=31 -0.02+/-0.20 -0.03+/-0.20 -0.02+/-0.20 -0.02+/-0.20 ... -0.09+/-0.50 -1.97+/-0.50 0.01+/-0.50 -0.01+/-0.50

Add dsi column

Create dsi tables:

Select index column ▼ Create dsi table

Use create dsi table button after selecting index and value columns

Add dsi table

Index  
(X-Werte)  
Auswählen

# PTB DSI Tabelle erstellen

DCC table Tool

localhost:5006/DCCTableTool

ultra low cost... 5.14 3D Rough... ptb\_material Gmail YouTube Maps

Create dis columns:

Val: Frequenz No Uncer Create Vector

Frequenz in Hertz len=31 10.0 12.5 16.0 20.0 ... 10000.0 8000.0 6300.0 5000.0

Val: Beschleunigungsamplitude No Uncer Create Vector

Beschleunigungsamplitude in  $\text{m/s}^2$  len=31 5 5 5 10 ... 100 100 100 100

Val: Ladungsübertragungskoeffizient Betrag Uncer: rel. expanded Uncertainty

absolute rel ☒ relPercent relPPM

Uncer Distribution: normal Coverage probability 0.0-1.0 0.95 coverage Factor 0.0-Inf 2 Create Vector

Ladungsübertragungskoeffizient Betrag in  $\text{pC/Coulomb/m/s}^2$  len=31 0.13+/-0.00 0.13+/-0.00 0.13+/-0.00 0.13+/-0.00 ... 0.15+/-0.00 0.14+/-0.00 0.14+/-0.00 0.13+/-0.00

Val: Phasenverzögerung Uncer: Expanded Uncertainty

absolute rel ☒ relPercent relPPM

Uncer Distribution: normal Coverage probability 0.0-1.0 0.95 coverage Factor 0.0-Inf 2 Create Vector

Phasenverzögerung in  $^\circ$  len=31 -0.02+/-0.20 -0.03+/-0.20 -0.02+/-0.20 -0.02+/-0.20 ... -0.09+/-0.50 -1.97+/-0.50 0.01+/-0.50 -0.01+/-0.50

Add dsi column

Create dsi tables:

Select index column

Frequenz Beschleunigungsamplitude Ladungsübertragungskoeffizient Betrag Phasenverzögerung

Create dsi table

value columns

Index  
(X-Werte)  
Auswählen

# PTB DSI Tabelle erstellen

DCC table Tool

localhost:5000/DCCTableTool

63	50	0.130126298816025	0.1	HF-B-NME	0.000591641718557412	0.2	HF-B-NME
----	----	-------------------	-----	----------	----------------------	-----	----------

Create dis columns:

Val: Frequenz ▼ No Uncer ▼ Create Vector

Frequenz in Hertz len=31 10.0 12.5 16.0 20.0 ... 10000.0 8000.0 6300.0 5000.0

Val: Beschleunigungsamplitude ▼ No Uncer ▼ Create Vector

Beschleunigungsamplitude in  $\text{metre}\backslash\text{second}\backslash\text{tothe}\{-2\}$  len=31 5 5 5 10 ... 100 100 100 100

Val: Ladungsübertragungskoeffizient Betrag ▼ Uncer: rel. expanded Uncertainty ▼

absolute  
rel  
☒ relPercent  
relPPM

Uncer Distribution: normal Coverage probability 0.0-1.0 0.95 coverage Factor 0.0-Inf 2 Create Vector

Ladungsübertragungskoeffizient Betrag in  $\text{picocolomb}\backslash\text{metre}\backslash\text{tothe}\{-1\}\backslash\text{second}\backslash\text{tothe}\{2\}$  len=31 0.13+/-0.00 0.13+/-0.00 0.13+/-0.00 0.13+/-0.00 ... 0.15+/-0.00 0.14+/-0.00 0.14+/-0.00 0.13+/-0.00

Val: Phasenverzögerung ▼ Uncer: Expanded Uncertainty ▼

absolute  
rel  
☒ relPercent

Uncer Distribution: normal Coverage probability 0.0-1.0 0.95 coverage Factor 0.0-Inf 2 Create Vector

Phasenverzögerung in  $\text{degree}$  len=31 -0.02+/-0.20 -0.01+/-0.50

Add dsi column

Create dsi tables:

Index: Frequenz ▼

Use create dsi table button after selecting index and value columns

Add dsi table

Beschleunigungsamplitude  
Ladungsübertragungskoeffizient Betrag  
Phasenverzögerung

Create dsi table

Daten-Spalten Auswählen

# PTB DSI Tabelle erstellen

DCC table Tool

localhost:5006/DCCTableTool

63	50	0.130126298816025	0.1	HF-B-NME	0.000591641718557412	0.2	HF-B-NME
----	----	-------------------	-----	----------	----------------------	-----	----------

Create dis columns:

Val: Frequenz ▼ No Uncer ▼ Create Vector

Frequenz in Hertz len=31 10.0 12.5 16.0 20.0 ... 10000.0 8000.0 6300.0 5000.0

Val: Beschleunigungsamplitude ▼ No Uncer ▼ Create Vector

Beschleunigungsamplitude in  $\text{metre/second}^2$  len=31 5 5 5 10 ... 100 100 100 100

Val: Ladungsübertragungskoeffizient Betrag ▼ Uncer: rel. expanded Uncertainty ▼

☐ absolute  
☐ rel  
☒ relPercent  
☐ relPPM

Uncer Distribution: normal Coverage probability 0.0-1.0 0.95 coverage Factor 0.0-Inf 2 Create Vector

Ladungsübertragungskoeffizient Betrag in  $\text{picocolomb/metre}^2$  len=31 0.13+/-0.00 0.13+/-0.00 0.13+/-0.00 0.13+/-0.00 ... 0.15+/-0.00 0.14+/-0.00 0.14+/-0.00 0.13+/-0.00

Val: Phasenverzögerung ▼ Uncer: Expanded Uncertainty ▼

☒ absolute  
☐ rel  
☐ relPercent  
☐ relPPM

Uncer Distribution: normal Coverage probability 0.0-1.0 0.95 coverage Factor 0.0-Inf 2 Create Vector

Phasenverzögerung in  $^{\circ}$  len=31 -0.02+/-0.20 -0.03+/-0.20 -0.02+/-0.20 -0.02+/-0.20 ... -0.09+/-0.50 -1.97+/-0.50 0.01+/-0.50 -0.01+/-0.50

Add dsi column

Create dsi tables:

Index: Frequenz ▼ Beschleunigungsamplitude ✕ Create dsi table

Use create dsi table button after selecting index and value columns

Add dsi table

# PTB DSI Tabelle erstellen

DCC table Tool

localhost:5006/DCCTableTool

8	63	50	0.130126298816025	0.1	HF-B-NME	0.000591641718557412	0.2	HF-B-NME
---	----	----	-------------------	-----	----------	----------------------	-----	----------

Create dis columns:

Val: Frequenz ▼ No Uncer ▼ Create Vector

Frequenz in Hertz len=31 10.0 12.5 16.0 20.0 ... 10000.0 8000.0 6300.0 5000.0

Val: Beschleunigungsamplitude ▼ No Uncer ▼ Create Vector

Beschleunigungsamplitude in  $\text{metre/second}^2$  len=31 5 5 5 10 ... 100 100 100 100

Val: Ladungsübertragungskoeffizient Betrag ▼ Uncer: rel. expanded Uncertainty ▼

☐ absolute  
☐ rel  
☒ relPercent  
☐ relPPM

Uncer Distribution: normal Coverage probability 0.0-1.0 0.95 coverage Factor 0.0-Inf 2 Create Vector

Ladungsübertragungskoeffizient Betrag in  $\text{picocoulomb/metre}^2$  len=31 0.13+/-0.00 0.13+/-0.00 0.13+/-0.00 0.13+/-0.00 ... 0.15+/-0.00 0.14+/-0.00 0.14+/-0.00 0.13+/-0.00

Val: Phasenverzögerung ▼ Uncer: Expanded Uncertainty ▼

☒ absolute  
☐ rel  
☐ relPercent  
☐ relPPM

Uncer Distribution: normal Coverage probability 0.0-1.0 0.95 coverage Factor 0.0-Inf 2 Create Vector

Phasenverzögerung in  $^{\circ}$  len=31 -0.02+/-0.20 -0.03+/-0.20 -0.02+/-0.20 -0.02+/-0.20 ... -0.09+/-0.50 -1.97+/-0.50 0.01+/-0.50 -0.01+/-0.50

Add dsi column

Create dsi tables:

Index: Frequenz ▼ Beschleunigungsamplitude ✕ Ladungsübertragungskoeffizient Betrag ✕ Phasenverzögerung ✕ Create dsi table

Use create dsi table button after selecting index and value columns

Add dsi table



DCC table Tool

localhost:5000/DCCTableTool

63	50	0.130126298816025	0.1	HF-B-NME	0.000591641718557412	0.2	HF-B-NME
----	----	-------------------	-----	----------	----------------------	-----	----------

Create dis columns:

Val: Frequenz ▼ No Uncer ▼ Create Vector

Frequenz in Hertz len=31 10.0 12.5 16.0 20.0 ... 10000.0 8000.0 6300.0 5000.0

Val: Beschleunigungsamplitude ▼ No Uncer ▼ Create Vector

Beschleunigungsamplitude in  $\text{metre/second}^2$  len=31 5 5 5 10 ... 100 100 100 100

Val: Ladungsübertragungskoeffizient Betrag ▼ Uncer: rel. expanded Uncertainty ▼

absolute ☐ rel ☐ relPercent ☒ relPPM ☐

Uncer Distribution: normal Coverage probability 0.0-1.0 0.95 coverage Factor 0.0-Inf 2 Create Vector

Ladungsübertragungskoeffizient Betrag in  $\text{picocolomb/metre}^2$  len=31 0.13+/-0.00 0.13+/-0.00 0.13+/-0.00 0.13+/-0.00 ... 0.15+/-0.00 0.14+/-0.00 0.14+/-0.00 0.13+/-0.00

Val: Phasenverzögerung ▼ Uncer: Expanded Uncertainty ▼

absolute ☒ rel ☐ relPercent ☐ relPPM ☐

Uncer Distribution: normal Coverage probability 0.0-1.0 0.95 coverage Factor 0.0-Inf 2 Create Vector

Phasenverzögerung in  $^{\circ}$  len=31 -0.02+/-0.20 -0.03+/-0.20 -0.02+/-0.20 -0.02+/-0.20 ... -0.09+/-0.50 -1.97+/-0.50 0.01+/-0.50 -0.01+/-0.50

Add dsi column

Create dsi tables:

Index: Frequenz ▼ Beschleunigungsamplitude ✕ Ladungsübertragungskoeffizient Betrag ✕ Phasenverzögerung ✕ Create dsi table

Use create dsi table button after selecting index and value columns

Add dsi table

**Tabelle erstellen**

# PTB DSI Tabelle erstellen

DCC table Tool

localhost:5000/DCCTableTool

Index	Quantity	Value	Uncertainty	Unit	Interpolation Type	Interpolation Type	Interpolation Type
3	20	10	0.130159056747483	0.1	HF-B-NME	-0.0177440345198079	0.2
4	25	10	0.130166297211551	0.1	HF-B-NME	-0.00610266110331281	0.2
5	31.5	10	0.13016757529951	0.1	HF-B-NME	-0.0115056740909267	0.2
6	40	10	0.130174660951257	0.1	HF-B-NME	-0.0155847621896328	0.2
7	50	50	0.130157589574794	0.1	HF-B-NME	-0.00812679049360554	0.2
8	63	50	0.130126298816025	0.1	HF-B-NME	0.000591641718557412	0.2

Create dis columns:

Val: Frequenz ▾ No Uncer ▾ Create Vector

Frequenz in hertz len=31 10.0 12.5 16.0 20.0 ... 10000.0 8000.0 6300.0 5000.0

Val: Beschleunigungsamplitude ▾ No Uncer ▾ Create Vector

Beschleunigungsamplitude in 1metresecondtothe{-2} len=31 5 5 5 10 ... 100 100 100 100

Val: Ladungsübertragungskoeffizient Betrag ▾ Uncer: rel. expanded Uncertainty ▾

absolute ☐ rel ☐ relPercent ☒ relPPM ☐ Coverage probability 0.0-1.0 0.95 coverage Factor 0.0-Inf 2 Create Vector

Ladungsübertragungskoeffizient Betrag in 1picoCoulomb1metretothe{-1}secondtothe{2} len=31 0.13+/-0.00 0.13+/-0.00 0.13+/-0.00 0.13+/-0.00 ... 0.15+/-0.00 0.14+/-0.00 0.14+/-0.00 0.13+/-0.00

Val: Phasenverzögerung ▾ Uncer: Expanded Uncertainty ▾

absolute ☒ rel ☐ relPercent ☐ relPPM ☐ Coverage probability 0.0-1.0 0.95 coverage Factor 0.0-Inf 2 Create Vector

Phasenverzögerung in 1degree len=31 -0.02+/-0.20 -0.03+/-0.20 -0.02+/-0.20 -0.02+/-0.20 ... -0.09+/-0.50 -1.97+/-0.50 0.01+/-0.50 -0.01+/-0.50

Add dsi column

Create dsi tables:

Index: Frequenz ▾ Beschleunigungsamplitude | x Ladungsübertragungskoeffizient Betrag | x Phasenverzögerung | x

Create dsi table Create dsi table JSON Create dsi table XML

dsiMultiVector @ 0x7f16a0bb2b0 Index >Frequenz Quantities=[Beschleunigungsamplitude, Ladungsübertragungskoeffizient Betrag, Phasenverzögerung] Interpolation Typ>None

Add dsi table

# PTB DSI Tabelle erstellen

DCC table Tool

localhost:5000/DCCTableTool

Index	Frequency	Amplitude	Coefficient	Phase	HF-B-NME	HF-B-NME	HF-B-NME
3	20	10	0.130159056747483	0.1	HF-B-NME	-0.0177440345198079	0.2
4	25	10	0.130166297211551	0.1	HF-B-NME	-0.00610266110331281	0.2
5	31.5	10	0.13016757529951	0.1	HF-B-NME	-0.0115056740909267	0.2
6	40	10	0.130174660951257	0.1	HF-B-NME	-0.0155847621896328	0.2
7	50	50	0.130157589574794	0.1	HF-B-NME	-0.00812679049360554	0.2
8	63	50	0.130126298816025	0.1	HF-B-NME	0.000591641718557412	0.2

Create dis columns:

Val: Frequenz No Uncer Create Vector

Frequenz in 'hertz' len=31 10.0 12.5 16.0 20.0 ... 10000.0 8000.0 6300.0 5000.0

Val: Beschleunigungsamplitude No Uncer Create Vector

Beschleunigungsamplitude in 'metre/secondtothe[-2]' len=31 5 5 5 10 ... 100 100 100 100

Val: Ladungsübertragungskoeffizient Betrag Uncer: rel. expanded Uncertainty

absolute rel relPercent relPPM

Uncer Distribution: normal Coverage probability 0.0-1.0 coverage Factor 0.0-Inf

Ladungsübertragungskoeffizient Betrag in 'pico/coulomb/metre/tothe[-1]secondtothe[2]' len=31 0.13+/-0.00 0.13+/-0.00 0.13+/-0.00 0.13+/-0.00 ... 0.15+/-0.00 0.14+/-0.00 0.14+/-0.00 0.13+/-0.00

Val: Phasenverzögerung Uncer: Expanded Uncertainty

absolute rel relPercent relPPM

Uncer Distribution: normal Coverage probability 0.0-1.0 coverage Factor 0.0-Inf

Phasenverzögerung in 'degree' len=31 -0.02+/-0.20 -0.03+/-0.20 -0.02+/-0.20 -0.02+/-0.20 ... -0.09+/-0.50 -1.97+/-0.50 0.01+/-0.50 -0.01+/-0.50

Add dis column

Create dsi tables:

Index: Frequenz Beschleunigungsamplitude Ladungsübertragungskoeffizient Betrag Phasenverzögerung

Create dsi table Create dsi table JSON Create dsi table XML

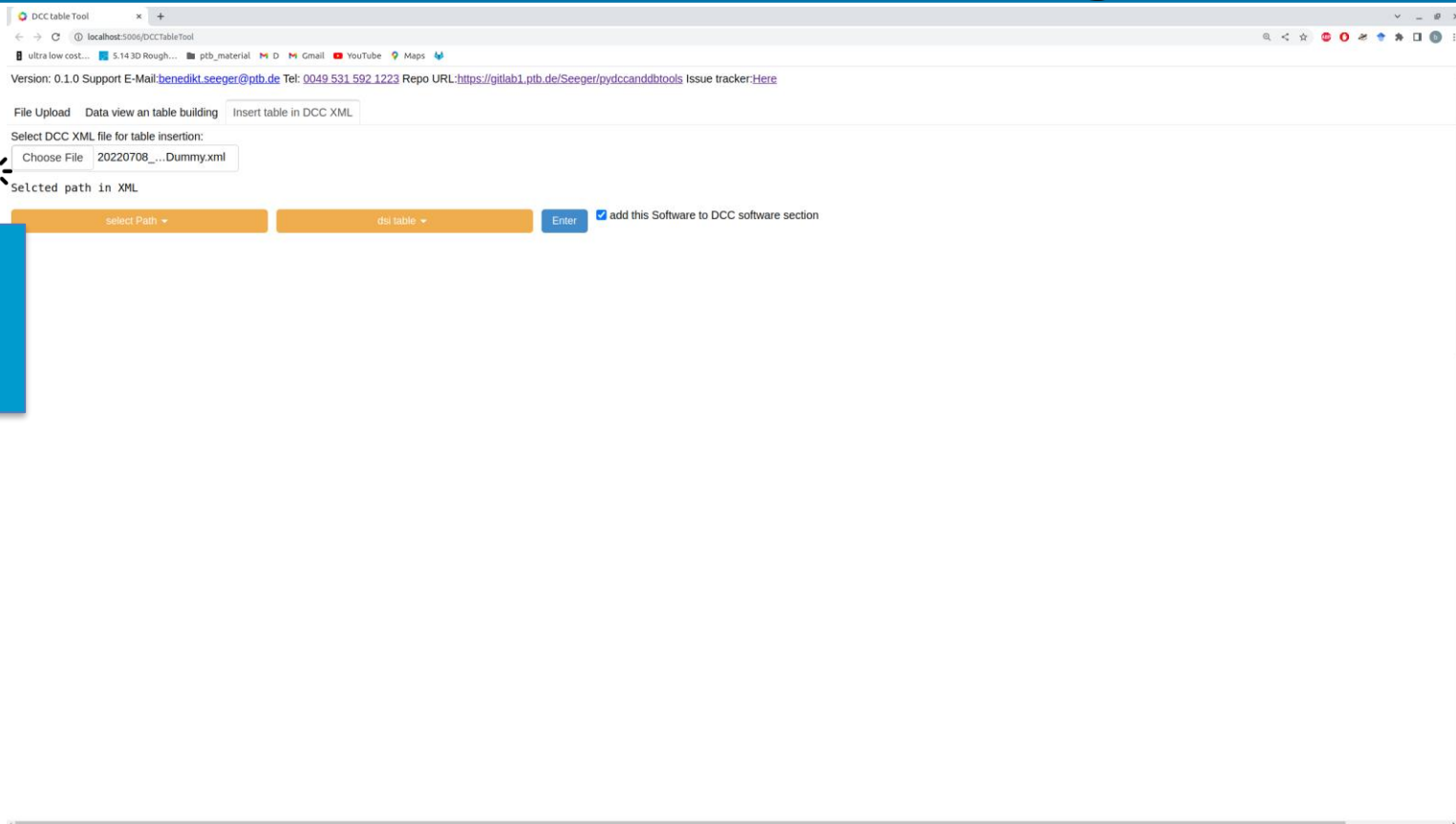
dsiMultiVector @ 0x7f16a0bb2b0 Index >Frequenz Quantities=[Beschleunigungsamplitude, 'Ladungsübertragungskoeffizient Betrag', 'Phasenverzögerung'] Interpolation Typ>None

Add dsi table

XML Fragment  
kann jetzt  
erstellt werden

# DSI Tabelle erstellen

- Es wird automatisch auf 2 signifikante Stellen gerundet



DCC table Tool

localhost:5006/DCCTableTool

ultra low cost... 5.14 3D Rough... ptb\_material D Gmail YouTube Maps

Version: 0.1.0 Support E-Mail: [benedikt.seeger@ptb.de](mailto:benedikt.seeger@ptb.de) Tel: 0049 531 592 1223 Repo URL: <https://gitlab1.ptb.de/Seeger/pydccanddbtools> Issue tracker: [Here](#)

File Upload Data view an table building Insert table in DCC XML

Select DCC XML file for table insertion:

Choose File 20220708\_...Dummy.xml

Selected path in XML

select Path dsi table Enter ☒ add this Software to DCC software section

XML, in das die  
Tabelle  
eingefügt  
werden soll  
Hochladen

DCC table Tool

localhost:5006/DCCTableTool

ultra low cost... 5.14 3D Rough... ptb\_material Gmail YouTube Maps

Version: 0.1.0 Support E-Mail: [benedikt.seeger@ptb.de](mailto:benedikt.seeger@ptb.de) Tel: 0049 531 592 1223 Repo URL: <https://gitlab1.ptb.de/Seeger/pydccanddbtools> Issue tracker: [Here](#)

File Upload Data view an table building Insert table in DCC XML

Select DCC XML file for table insertion:

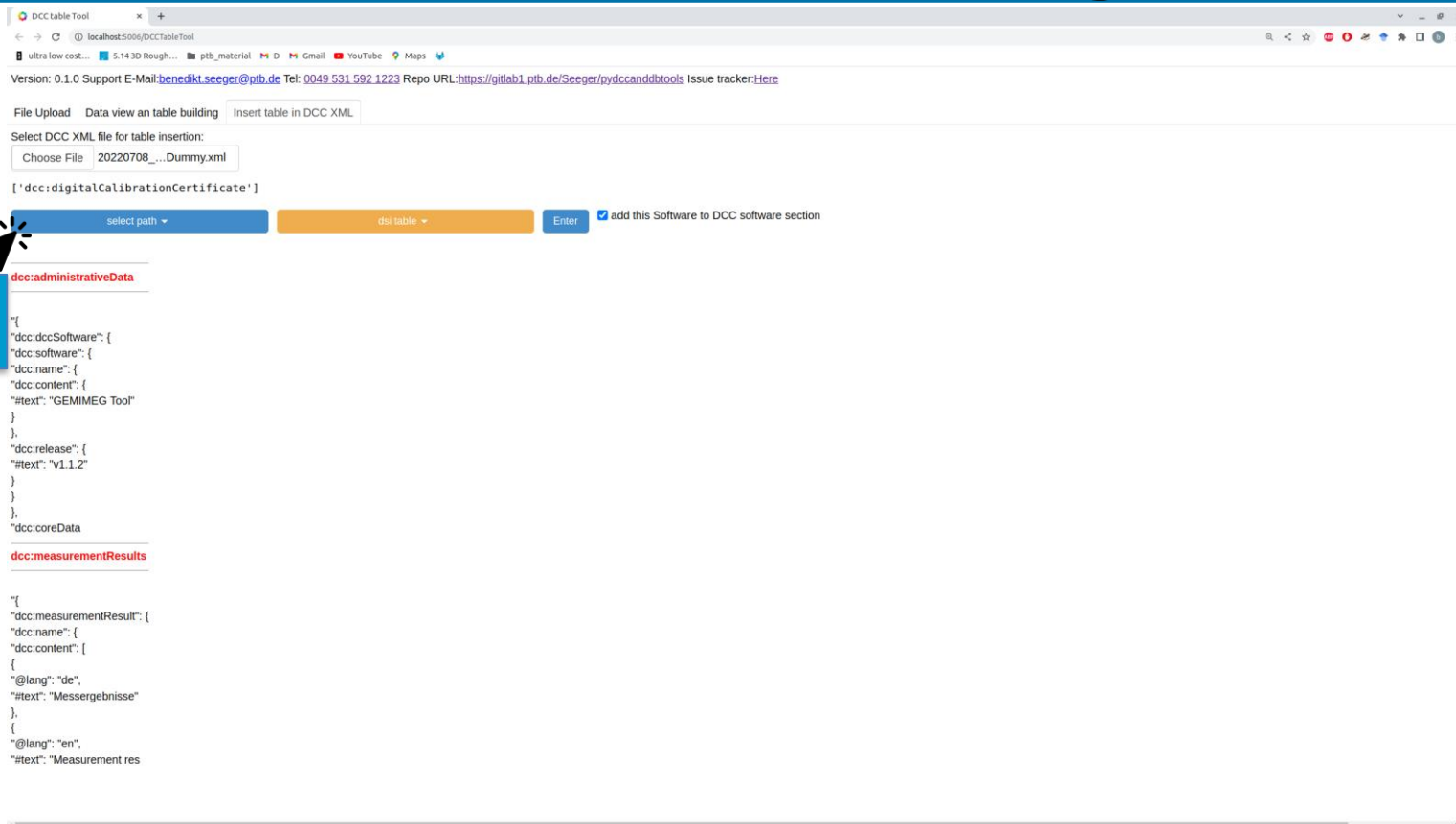
Choose File 20220708\_...Dummy.xml

Selected path in XML

select Path dsi table Enter add this Software to DCC software section

dcc:digitalCalibrationCertificate

Zum Ziel Pfad  
navigieren



Zum Ziel Pfad navigieren

DCC table Tool

localhost:5006/DCCTableTool

Version: 0.1.0 Support E-Mail: [benedikt.seeger@ptb.de](mailto:benedikt.seeger@ptb.de) Tel: 0049 531 592 1223 Repo URL: <https://gitlab1.ptb.de/Seeger/pydccanddbtools> Issue tracker: [Here](#)

File Upload Data view an table building Insert table in DCC XML

Select DCC XML file for table insertion:

Choose File 20220708\_...Dummy.xml

`['dcc:digitalCalibrationCertificate', 'dcc:measurementResults']`

select path ▼ dsi table ▼ Enter ☒ add this Software to DCC software section

**dcc:measurementResult**

```
{
  "dcc:name": {
    "dcc:content": {
      {
        "@lang": "de",
        "text": "Messergebnisse"
      },
      {
        "@lang": "en",
        "text": "Measurement results"
      }
    ]
  },
  "dcc:usedMethods": {
```

Zum Ziel Pfad  
navigieren



The screenshot shows a web browser window titled "DCC table Tool" at the URL "localhost:5006/DCCTableTool". The page includes a header with contact information for PTB and a navigation bar with options like "File Upload", "Data view an table building", and "Insert table in DCC XML". The main content area prompts the user to "Select DCC XML file for table insertion:" and shows a file selection button labeled "Choose File" with the filename "20220708\_...Dummy.xml". Below this, a JSON array of DCC XML namespaces is displayed: `['dcc:digitalCalibrationCertificate', 'dcc:measurementResults', 'dcc:measurementResult', 'dcc:results', 'dcc:result', 'dcc:data']`. A row of buttons is visible: "select path", "dsi table", "Enter", and a checkbox "add this Software to DCC software section". A mouse cursor points to the "dsi table" button, which is highlighted with a blue callout box containing the text "Ziel ist erreicht. Tabelle wählen". Below the buttons, a section titled "dcc:list" shows a partial JSON structure for a DCC entry.

Version: 0.1.0 Support E-Mail: [benedikt.seeger@ptb.de](mailto:benedikt.seeger@ptb.de) Tel: 0049 531 592 1223 Repo URL: <https://gitlab1.ptb.de/Seeger/pydccandbtools> Issue tracker: [Here](#)

File Upload Data view an table building Insert table in DCC XML

Select DCC XML file for table insertion:

Choose File 20220708\_...Dummy.xml

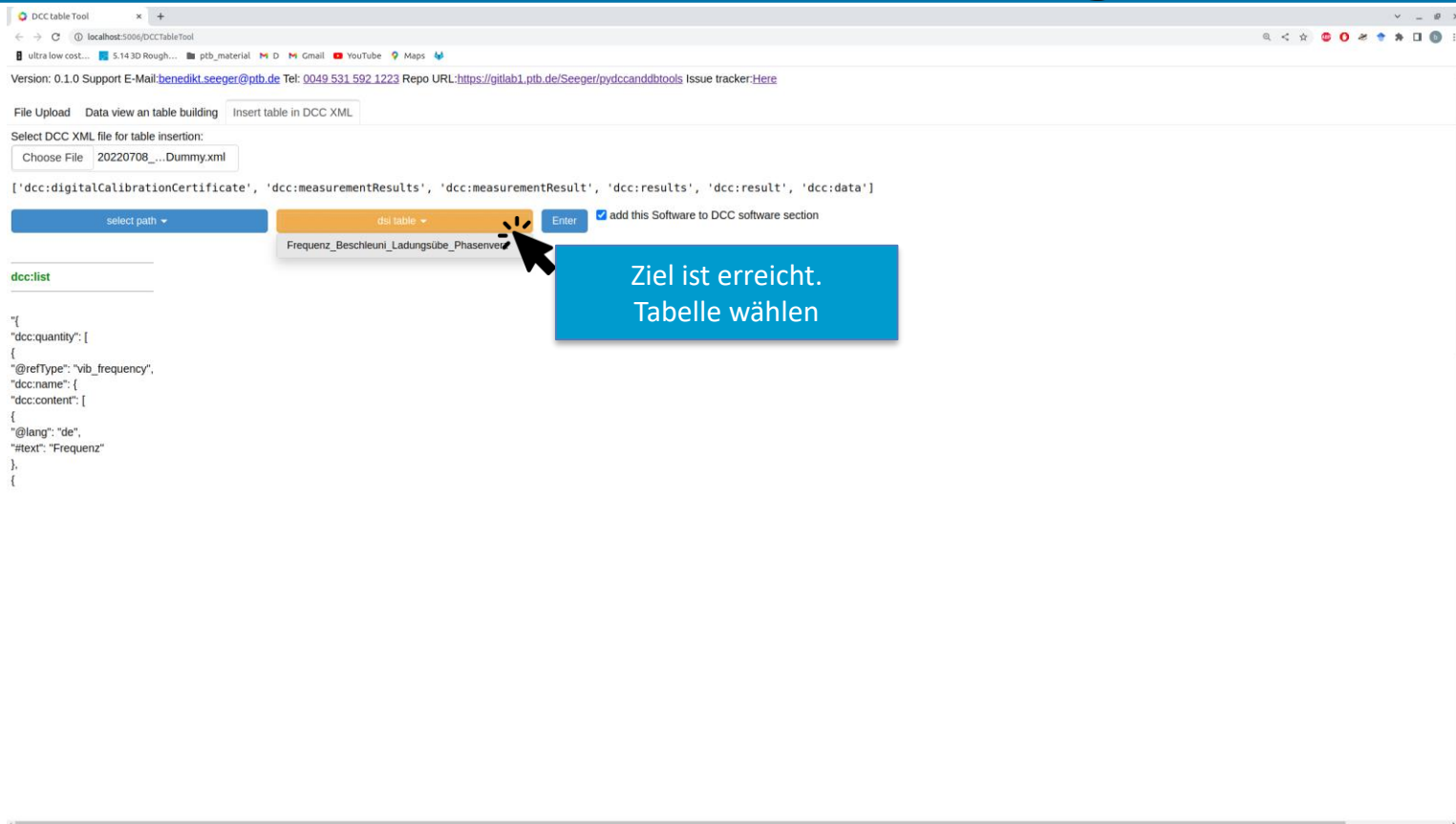
`['dcc:digitalCalibrationCertificate', 'dcc:measurementResults', 'dcc:measurementResult', 'dcc:results', 'dcc:result', 'dcc:data']`

select path dsi table Enter add this Software to DCC software section

**Ziel ist erreicht.  
Tabelle wählen**

**dcc:list**

```
{
  "dcc:quantity": [
    {
      "@refType": "vib_frequency",
      "dcc:name": {
        "dcc:content": [
          {
            "@lang": "de",
            "stext": "Frequenz"
          }
        ]
      }
    }
  ]
}
```



DCC table Tool

localhost:5006/DCCTableTool

ultra low cost... 5.14 3D Rough... ptb\_material Gmail YouTube Maps

Version: 0.1.0 Support E-Mail: [benedikt.seeger@ptb.de](mailto:benedikt.seeger@ptb.de) Tel: 0049 531 592 1223 Repo URL: <https://gitlab1.ptb.de/Seeger/pydccanddbtools> Issue tracker: [Here](#)

File Upload Data view an table building Insert table in DCC XML

Select DCC XML file for table insertion:

Choose File 20220708\_...Dummy.xml

[ 'dcc:digitalCalibrationCertificate', 'dcc:measurementResults', 'dcc:measurementResult', 'dcc:results', 'dcc:result', 'dcc:data' ]

select path ▼ dsi table ▼ Enter add this Software to DCC software section

Frequenz\_Beschleunigung\_Ladungsübertragungsfunktion

**Ziel ist erreicht.  
Tabelle wählen**

**dsi:list**

```
{
  "dcc:quantity": [
    {
      "@refType": "vib_frequency",
      "dcc:name": {
        "dcc:content": [
          {
            "@lang": "de",
            "stext": "Frequenz"
          }
        ]
      }
    }
  ]
}
```

The screenshot shows a web browser window titled "DCC table Tool" with the address bar displaying "localhost:5006/DCCTableTool". The page content includes a version notice (0.1.0) and contact information. Below this, there are tabs for "File Upload", "Data view an table building", and "Insert table in DCC XML". The "Insert table in DCC XML" tab is active, showing a "Select DCC XML file for table insertion:" section with a "Choose File" button and a file named "20220708\_...Dummy.xml". Below this, a list of DCC XML sections is displayed: ["dcc:digitalCalibrationCertificate", "dcc:measurementResults", "dcc:measurementResult", "dcc:results", "dcc:result", "dcc:data"]. A "select path" button is next to the list. A green button labeled "Frequenz\_Beschleunigung\_Ladungsübertragungsfaktor" is highlighted, and a mouse cursor is clicking on it. To the right of the button is an "Enter" button and a checkbox labeled "add this Software to DCC software section". A blue callout box with the text "Tabelle Einfügen" is positioned over the "Enter" button. Below the button, a "dcc:list" section is visible, containing a JSON-like structure for a DCC entry.

```
["dcc:digitalCalibrationCertificate", "dcc:measurementResults", "dcc:measurementResult", "dcc:results", "dcc:result", "dcc:data"]
```

select path ▼ Frequenz\_Beschleunigung\_Ladungsübertragungsfaktor Enter ☒ add this Software to DCC software section

dcc:list

```
{
  "dcc:quantity": [
    {
      "@refType": "vib_frequency",
      "dcc:name": {
        "dcc:content": [
          {
            "@lang": "de",
            "stext": "Frequenz"
          }
        ]
      }
    }
  ]
}
```

DCC table Tool

localhost:5006/DCCTableTool

ultra low cost... 5.14 3D Rough... ptb\_material D Gmail YouTube Maps

Version: 0.1.0 Support E-Mail: [benedikt.seeger@ptb.de](mailto:benedikt.seeger@ptb.de) Tel: 0049 531 592 1223 Repo URL: <https://gitlab1.ptb.de/Seeger/pydccanddbtools> Issue tracker: [Here](#)

File Upload Data view an table building Insert table in DCC XML

Select DCC XML file for table insertion:

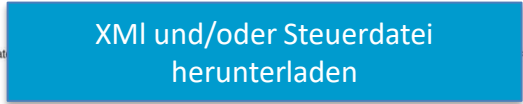
Choose File 20220708\_...Dummy.xml

[ 'dcc:digitalCalibrationCertificate', 'dcc:measurementResults', 'dcc:measurementResult', 'dcc:results', 'dcc:result', 'dcc:data' ]

select path ▼ Frequenz\_Beschleunigung\_Ladungsübertragungsfaktor Enter add this Software to DCC software section

[XML File](#)  
[Control JSON File](#)

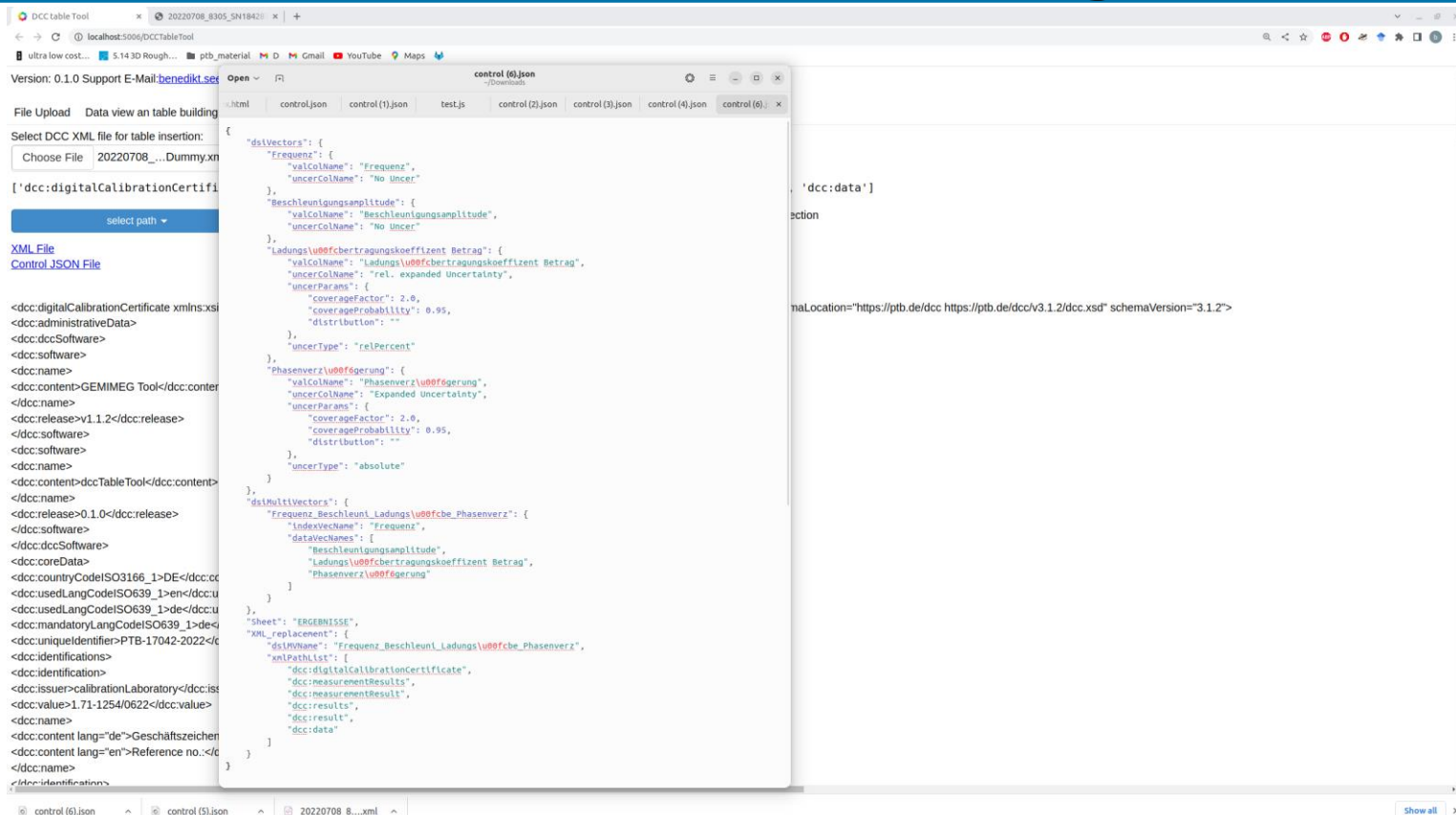
```
<dcc:digitalCalibrationCertificate xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:dcc="https://ptb.de/dcc" xmlns:si="https://ptb.de/si" xsi:schemaLocation="https://ptb.de/dcc https://ptb.de/dcc/v3.1.2/dcc.xsd" schemaVersion="3.1.2">
<dcc:administrativeData>
<dcc:dccSoftware>
<dcc:software>
<dcc:name>
<dcc:content>GEMIMEG Tool</dcc:content>
</dcc:name>
<dcc:release>v1.1.2</dcc:release>
</dcc:software>
<dcc:software>
<dcc:name>
<dcc:content>DCC Table Tool</dcc:content>
</dcc:name>
<dcc:release>0.1.0</dcc:release>
</dcc:software>
</dcc:dccSoftware>
<dcc:coreData>
<dcc:countryCodeISO3166_1>DE</dcc:countryCodeISO3166_1>
<dcc:usedLangCodeISO639_1>en</dcc:usedLangCodeISO639_1>
<dcc:usedLangCodeISO639_1>de</dcc:usedLangCodeISO639_1>
<dcc:mandatoryLangCodeISO639_1>de</dcc:mandatoryLangCodeISO639_1>
<dcc:uniqueIdentifier>PTB-17042-2022</dcc:uniqueIdentifier>
<dcc:identifications>
<dcc:identification>
<dcc:issuer>calibrationLaboratory</dcc:issuer>
<dcc:value>1.71-1254/0622</dcc:value>
<dcc:name>
<dcc:content lang="de">Geschäftszeichen</dcc:content>
<dcc:content lang="en">Reference no.</dcc:content>
</dcc:name>
</dcc:identification>
</-
```



# PTB DSI Tabelle in DCC XML einfügen

```
<?xml version="1.0" encoding="UTF-8" standalone="no" ?>
<dc:digitalCalibrationCertificate xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:dcc="https://ptb.de/dcc" xmlns:si="https://ptb.de/si" xsi:schemaLocation="https://ptb.de/dcc https://ptb.de/dcc/v3.1.2/dcc.xsd" schemaVersion="3.1.2">
  <dc:administrativeData>
    <dc:software>
      <dc:name>GEMEG Tool</dc:name>
      <dc:release>v1.1.2</dc:release>
    </dc:software>
    <dc:software>
      <dc:name>DCC table tool</dc:name>
      <dc:release>0.1.0</dc:release>
    </dc:software>
    <dc:coreData>
      <dc:countryCode>ISO3166-1-DE</dc:countryCode>
      <dc:useLangCode>ISO639-1-DE</dc:useLangCode>
      <dc:useLangCode>ISO639-1-DE</dc:useLangCode>
      <dc:mandatoryLangCode>ISO639-1-DE</dc:mandatoryLangCode>
      <dc:uniqueIdentifier>PTB-17842-2022</dc:uniqueIdentifier>
      <dc:identifications>
        <dc:identification>
          <dc:issuer>calibrationLaboratory</dc:issuer>
          <dc:value>1.71-1254/062</dc:value>
          <dc:name>
            <dc:content lang="de">Geschäftszeichen</dc:content>
            <dc:content lang="en">Reference no.</dc:content>
          </dc:name>
        </dc:identification>
        <dc:identification>
          <dc:issuer>calibrationLaboratory</dc:issuer>
          <dc:value>Physikalisch Technische Bundesanstalt AG 1.71 Darstellung Beschleunigung</dc:value>
          <dc:name>
            <dc:content lang="de">Auftrags Nr.</dc:content>
            <dc:content lang="en">Order no.</dc:content>
          </dc:name>
        </dc:identification>
      </dc:identifications>
      <dc:performanceData>
        <dc:receiptDate>2022-09-06</dc:receiptDate>
        <dc:beginPerformanceDate>2022-07-08</dc:beginPerformanceDate>
        <dc:endPerformanceDate>2022-07-08</dc:endPerformanceDate>
        <dc:performanceLocation>Laboratory</dc:performanceLocation>
      </dc:performanceData>
      <dc:items>
        <dc:item>
          <dc:name>Wenn es sich nur um ein Kalibrier Objekt handelt würde ich Name nur an Item verwenden.
          <dc:content lang="en">Acceleration reference standard sensor</dc:content>
          <dc:content lang="de">Beschleunigungsaufnehmer-Bezugsnormal</dc:content>
        </dc:item>
        <dc:item>
          <dc:content lang="de">Beschleunigungsaufnehmer-Bezugsnormal</dc:content>
          <dc:content lang="en">Acceleration reference standard sensor</dc:content>
        </dc:item>
        <dc:manufacturer>
          <dc:name>
            <dc:content>Brüel Kjaer Dänemark</dc:content>
          </dc:name>
          <dc:manufacturer>
            <dc:content>B3305</dc:content>
          </dc:manufacturer>
          <dc:identifications>
            <dc:identification>
              <dc:issuer>manufacturer</dc:issuer>
              <dc:value>1842876</dc:value>
            </dc:identification>
            <dc:content lang="de">Serien Nr.</dc:content>
            <dc:content lang="en">Serial no.</dc:content>
          </dc:identifications>
          <dc:identification>
            <dc:issuer>customer</dc:issuer>
            <dc:value>string-customer-item</dc:value>
          </dc:identification>
          <dc:content lang="de">Messmittel Nr.</dc:content>
          <dc:content lang="en">Measurement equipment no.</dc:content>
        </dc:identification>
      </dc:items>
    </dc:coreData>
  </dc:administrativeData>
</dc:digitalCalibrationCertificate>
```

# DSI Tabelle in DCC XML einfügen



The screenshot displays the 'DCC table Tool' interface. On the left, there's a sidebar with 'File Upload' and 'Data view as table building'. The main area shows a DCC XML file for table insertion, with a 'Choose File' button and a file named '20220708\_...Dummy.xml'. Below this, there's a 'select path' button and a list of XML files including 'XML File' and 'Control JSON File'.

The central pane shows the XML content of the selected file, which includes a digital calibration certificate. The XML structure is as follows:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
<cc:DigitalCalibrationCertificate xmlns:cc="http://www.ptb.de/dcc" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.ptb.de/dcc http://www.ptb.de/dcc/v3.1.2/dcc.xsd schemaVersion="3.1.2">
  <cc:administrativeData>
    <cc:software>
      <cc:name>GEMIMEG Tool</cc:name>
    </cc:software>
    <cc:release>v1.1.2</cc:release>
  </cc:administrativeData>
  <cc:content>
    <cc:content>
      <cc:release>0.1.0</cc:release>
    </cc:content>
  </cc:content>
  <cc:coreData>
    <cc:countryCode>ISO3166_1>DE</cc:countryCode>
    <cc:usedLangCodeISO639_1>en</cc:usedLangCodeISO639_1>
    <cc:mandatoryLangCodeISO639_1>de</cc:mandatoryLangCodeISO639_1>
    <cc:uniqueIdentifier>PTB-17042-2022</cc:uniqueIdentifier>
    <cc:identifications>
      <cc:issuer>calibrationLaboratory</cc:issuer>
      <cc:value>1.71-1254/0622</cc:value>
      <cc:name>
        <cc:content lang="de">Geschäftszeichen</cc:content>
        <cc:content lang="en">Reference no.</cc:content>
      </cc:name>
    </cc:identifications>
  </cc:coreData>
  <cc:dsi>
    <cc:dsiTable>
      <cc:dsiTableHeader>
        <cc:dsiTableHeaderItem>
          <cc:dsiTableHeaderItemName>Frequenz</cc:dsiTableHeaderItemName>
          <cc:dsiTableHeaderItemUncertainty>No Uncer</cc:dsiTableHeaderItemUncertainty>
        </cc:dsiTableHeaderItem>
        <cc:dsiTableHeaderItem>
          <cc:dsiTableHeaderItemName>Beschleunigungsamplitude</cc:dsiTableHeaderItemName>
          <cc:dsiTableHeaderItemUncertainty>No Uncer</cc:dsiTableHeaderItemUncertainty>
        </cc:dsiTableHeaderItem>
        <cc:dsiTableHeaderItem>
          <cc:dsiTableHeaderItemName>Ladungsübertragungskoeffizient Betrag</cc:dsiTableHeaderItemName>
          <cc:dsiTableHeaderItemUncertainty>rel. expanded Uncertainty</cc:dsiTableHeaderItemUncertainty>
        </cc:dsiTableHeaderItem>
        <cc:dsiTableHeaderItem>
          <cc:dsiTableHeaderItemName>Phasenverzögerung</cc:dsiTableHeaderItemName>
          <cc:dsiTableHeaderItemUncertainty>Expanded Uncertainty</cc:dsiTableHeaderItemUncertainty>
        </cc:dsiTableHeaderItem>
      </cc:dsiTableHeader>
      <cc:dsiTableData>
        <cc:dsiTableDataItem>
          <cc:dsiTableDataItemName>Frequenz</cc:dsiTableDataItemName>
          <cc:dsiTableDataItemUncertainty>No Uncer</cc:dsiTableDataItemUncertainty>
        </cc:dsiTableDataItem>
        <cc:dsiTableDataItem>
          <cc:dsiTableDataItemName>Beschleunigungsamplitude</cc:dsiTableDataItemName>
          <cc:dsiTableDataItemUncertainty>No Uncer</cc:dsiTableDataItemUncertainty>
        </cc:dsiTableDataItem>
        <cc:dsiTableDataItem>
          <cc:dsiTableDataItemName>Ladungsübertragungskoeffizient Betrag</cc:dsiTableDataItemName>
          <cc:dsiTableDataItemUncertainty>rel. expanded Uncertainty</cc:dsiTableDataItemUncertainty>
        </cc:dsiTableDataItem>
        <cc:dsiTableDataItem>
          <cc:dsiTableDataItemName>Phasenverzögerung</cc:dsiTableDataItemName>
          <cc:dsiTableDataItemUncertainty>Expanded Uncertainty</cc:dsiTableDataItemUncertainty>
        </cc:dsiTableDataItem>
      </cc:dsiTableData>
    </cc:dsiTable>
  </cc:dsi>

```

On the right, there's a pane showing the JSON control file, which includes a 'data' object and a 'location' attribute pointing to the DCC schema.



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Braunschweig und Berlin**

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Stand: 10/13