



SDM Tables Short Description

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1.54 SysCal Table

System calibration. Gives information on the conversion of data to temperature scale. This table is reduced to follow the contents of the Measurement Set SysCal table. Use only spectral values (use a single channel spectral window for single numbers). `numChan` can be found in the SpectralWindow Table. The contents of this table are used to scale the data in the filler.

SysCal		
Name	Type (Shape)	Comment
<i>Key</i>		
<code>antennaId</code>	Tag	refers to a unique row in AntennaTable.
<code>spectralWindowId</code>	Tag	refers to a unique row in SpectralWindowTable.
<code>timeInterval</code>	ArrayTimeInterval	time interval for which the row's content is valid.
<code>feedId</code>	int	refers to a collection of rows in FeedTable.
<i>Required Data</i>		
<code>numReceptor</code>	int	N_{Rece} the number of receptors.
<code>numChan</code>	int	N_{Chan} the number of frequency channels.
<i>Optional Data</i>		
<code>tcalFlag</code>	bool	the calibration temperature flag.
<code>tcalSpectrum</code>	Temperature [N_{Rec}] [N_{Chan}]	the calibration temperatures (one value per receptor per channel).
<code>trxFalg</code>	bool	the receiver temperature flag.
<code>trxSpectrum</code>	Temperature [N_{Rec}] [N_{Chan}]	the receiver temperatures (one value per receptor per channel).
<code>tskyFlag</code>	bool	the sky temperature flag.
<code>tskySpectrum</code>	Temperature [N_{Rec}] [N_{Chan}]	the sky temperatures (one value per receptor per channel).
<code>tsysFlag</code>	bool	the system temperature flag.
<code>tsysSpectrum</code>	Temperature [N_{Rec}] [N_{Chan}]	the system temperatures (one value per receptor per channel).
<code>tantFlag</code>	bool	the tant flag.
<code>tantSpectrum</code>	float [N_{Rec}] [N_{Chan}]	the Tant spectrum (one value per receptor per channel).
<code>tantTsysFlag</code>	bool	the Tant/Tsys flag.
<code>tantTsysSpectrum</code>	float [N_{Rec}] [N_{Chan}]	the Tant/Tsys spectrum (one value per receptor per channel).
<code>phaseDiffFlag</code>	bool	the phase difference flag.
<code>phaseDiffSpectrum</code>	float [N_{Rec}] [N_{Chan}]	the phase difference spectrum (one value per receptor per channel).

Column Descriptions:



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antennaId : Specifies which antenna was used in the Antenna Table.

spectralWindowId : SpectralWindow Table identifier.

timeInterval : Time Interval of validity of the SysCal information

feedId : Specifies which feed was used in the Feed Table.

numReceptor : The number of receptors.

numChan : The number of frequency channels.

tcalFlag : Calibration temperature flag.

tcalSpectrum : Calibration temperature for each channel.

trxFlag : Receiver temperature flag.

trxSpectrum : Receiver temperature for each channel.

tskyFlag : Sky temperature flag.

tskySpectrum : Sky temperature for each channel

tsysFlag : System temperature flag.

tsysSpectrum : System temperature for each channel.

tantFlag : Tant Flag (MS compatibility).

tantSpectrum : Tant Spectrum (MS compatibility).

tantTsysFlag : Tant/Tsys Flag (MS compatibility).

tantTsysSpectrum : Tant/Tsys Spectrum (MS compatibility).

phaseDiffFlag : Phase Difference Flag (MS compatibility)

phaseDiffSpectrum : Phase Difference Spectrum (MS compatibility)