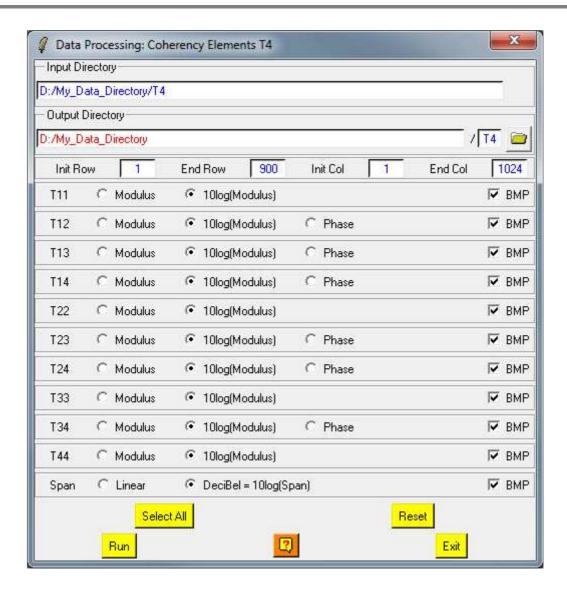


# **Coherency [T4] matrix Elements Processing**



## **Description:**

Creates binary files corresponding to the modulus and argument of the (4x4) complex Coherency matrix ([**T4**]) raw binary data.

An option may be set to simultaneously create the corresponding bitmap image files.

### **Comments:**

Parameters written in Red can be modified directly by the user from the keyboard.

# **Input/Output Arguments:**

Input Indicates the complete location of the considered MainDirectory / T4 (MD / T4) containing the [T4] matrix data to be processed.

**Output** Indicates the location of the processed data output directory.

**Directory** The default value is set automatically to :

MainDirectory / T4 (MD / T4).

### **Output Image Number of Rows/Columns:**

The output image numbers of rows and columns are initialised to the input data set dimensions.

Users wishing to process a sub-part of the initial image can modify the **Init** and **End** values of the converted images rows and columns.

Note: init and end values have to remain within the range defined by the input image dimensions.

### **Selection of the Channels to be Processed:**

Several channels may be processed at a time. The selection of the BMP options enables the creation of output bmp files.

Users may choose between three types of output binary data:

- Modulus: Linear representation of the considered [T4] element amplitude. Ouput file name: Tij\_mod.bin (.bmp)
- $\bullet$  Modulus : Element amplitude in dB=10log10(Modulus). Ouput file name : Tij\_dB.bin (.bmp)
- Phase: Argument of the considered complex [T4] element (Only available for off-diagonal elements). Ouput file name: Tij\_pha.bin (.bmp)
- Span: Correspond to the sum of the diagonal elements of [**T4**], may also be processed (linear and dB) using this program.