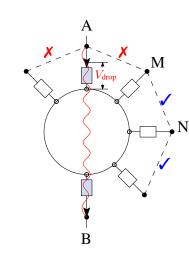
## Data Format of pyEIT, Rev 0.1



Key messages:

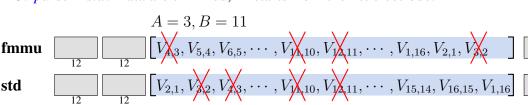
- 1. using ABMN model, {A, B} for current source and sink,  $\{M, N\}$  for measuring voltage differences,  $V_{N,M}$ , 2. M or N should not equal to A or B due to the voltage
  - on the neighbore of A or B is discarded (trimmed), 3. The distance between AB is called skip. In adjacent

drops on current path, therefore, the voltage differences

mode, skip=1, in opposition mode, skip=8,

4. For a typical 16-electrode system, there are total 208  $(16\times13)$  measurements in adjacent mode, and totally 196 ( $16 \times 12$ ) measurements in opposition mode.

- A EIT system repetively applies current and measures the voltages. There are two data formats in each excitation, see *fem.py* for the detailed implementation.
  - 1. trim=True. if M or N equals to A or B, the measurement is trimmed. (Currently, trim is fixed to True, this may be changed in a future version of pyEIT),
  - 2. parser=fmmu. Data are trimmed, M starts relatively from A,
  - 3. *parser=std*. Data are trimmed, M starts from the 1st electrode.



std