

# Packet information

- Suggestions on data stream organization
  - What information do we need to contain in the data stream (header/trailor)
  - How will we send our data out from the TIP (random, per channel)?
- What does the SAMPA provide:
  - Specific chip address: 4-bits
  - Channel address: 5-bits
  - Time stamp: 10-bit
  - Data parity: 1-bit
  - Summary: 20-bits
- The aggregator address can be added (max 180 cards): 8-bits
- Full header/trailor information: 28-bits
- Aurora streams data in 16-bit data paths: 2x clock cycles for the complete information (4-bits spare (can be used as flag))
  - Preliminary idea retrieve SAMPA header append Aggegator address and convert to trailor
  - TIP will stream each aggregator until the trailor then moves to next aggregator card
- **Current status:** Setting up dummy firmware to test serial transceiver synchronization in eval. card (appears to be a bit tricky but not unsolvable)