Time Domain Interest Group

What have we seen in this meeting?

- **3 sessions!**
  - Alerts
    - ZTF producing and will be releasing alerts next Monday!
    - LSST:
      - Apache Avro (serialization) + Apache Kafka (transport) to meet their requirements,
      - But no worries! it is expected that VOEvents will be used by the mini-broker
    - SSIG using VOEvents

  - Time Series DM and serialisations:
    - Two proposed models
    - Three serialisations were proposed
    - Hackathon was a great exercise - thanks for that!
    - I think we are in the right path towards a model

  - Gaia DR2 light-curves distributed by GAVO

  - Metadata for epoch description in catalogues in VizieR

  - T-MOCs allowing to see the time coverage of a mission/catalogue + T-MOC Python library

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What next?

- **Alerts**
  - Time domain IG members working with ZTF and LSST to develop brokers and filters: Lessons learned from ZTF and LSST will inform future developments of VOEvent
  - Feedback from SSIG, investigate and report on how to proceed on VOEvent to meet their requirements

- **Time Series:**
  - **DAL**: TimeSeries extension for DAL protocols as a single spec: "TimeSeries discovery and access protocol a set of extensions to DAL protocol for TimeSeries"
    - Obscore extension (Time sampling…)
    - Corresponding PARAMETERS in SIAV2-like interface
    - SODA extension parameters for data selection
    - Access or DataLinks tags in source-driven context
  - **DM:** Representation (requires modelling and serialisation)
    - Work close to Gaia, ZTF, LSST to meet their deadlines
    - Deliver different versions on our path towards ultimate goal
    - Present serialisations —> encourage applications to test —> collect feedback

- **T-Moc:**
  - Connect to space MOC (towards a ST-MOC?)
  - Progenitors (HiPS for Time?)
  - No documentation, we need it
  - Test and give feedback!