

Summary: DESC Broker Workshop

21-22 February 2019, Berkeley USA



Agenda: <https://rbiswas4.github.io/BrokerWorkshop/agenda.html>

Presentations: https://drive.google.com/drive/folders/1sjYXbdwTID3VnzZNAkcjLbjRfpwNaO_n?usp=sharing

Live notes: <https://docs.google.com/document/d/1e1Q6rAnsLO1v2BRkWy-cCarPwQOuzRYaYDzDrfyx6lg/edit?usp=sharing>

- Goals:
- 1 - Overview of current landscape of brokers
 - 2 - Formulate a DESC reply to Letter of Intent for community brokers

Definitions:

Broker: Software capable of digesting the live alert stream

Alert: info signal above threshold + image stamps + 30 days history of location

Alert packet: Alert + 12 month force photometry + ...

TOM (Target and Observation Manager): coordinate follow-up resources

Availability:

Alerts: available to community brokers 60s after production

Alert packets: available on disk through the science portal after 24h

Science Cases: Supernova and Microlensing

Current brokers represented:

ALeRCE (Chile), LASAIR (UK), ANTARES (USA), SkyPortal (USA)

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French participation:

Active Learning for SNe photometric classification (Emille)

Mini-broker based on Spark (Julien) - https://github.com/JulienPeloton/mini_spark_broker

Action item:

Do DESC feel the need to access the alert stream? If so, in what time frame?

Enquiry sent to all WG conveners and Task Force leads

Responses: SN related groups demonstrated interest in the alert stream

Conclusion: see Alex Kim DESC Seminar, 3 April, 5pm - Paris time

Further developments:

Since then, French participation developed by merging the two ideas

A broker proposal for LSST-France, based on Spark and incorporating

Active Learning techniques to alert classification

See Julien's presentation next ...