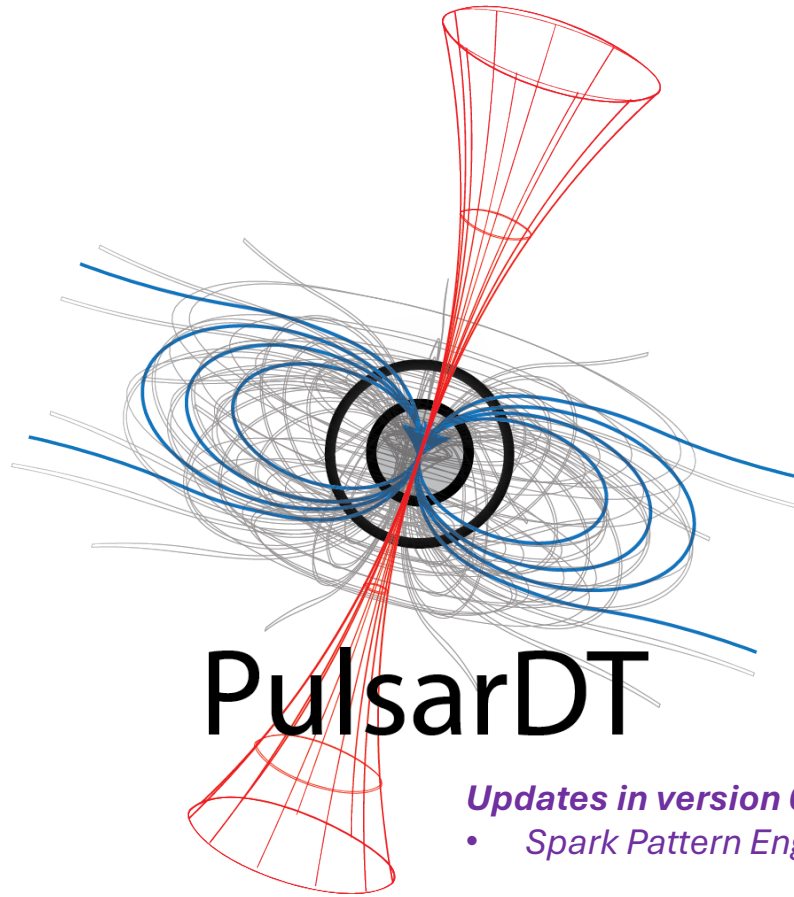




PulsarDT

Updates in version 0.2

- *Spark Pattern Engineering*



gitlab.dzastro.de/punch/ml-ppa/pulsardt

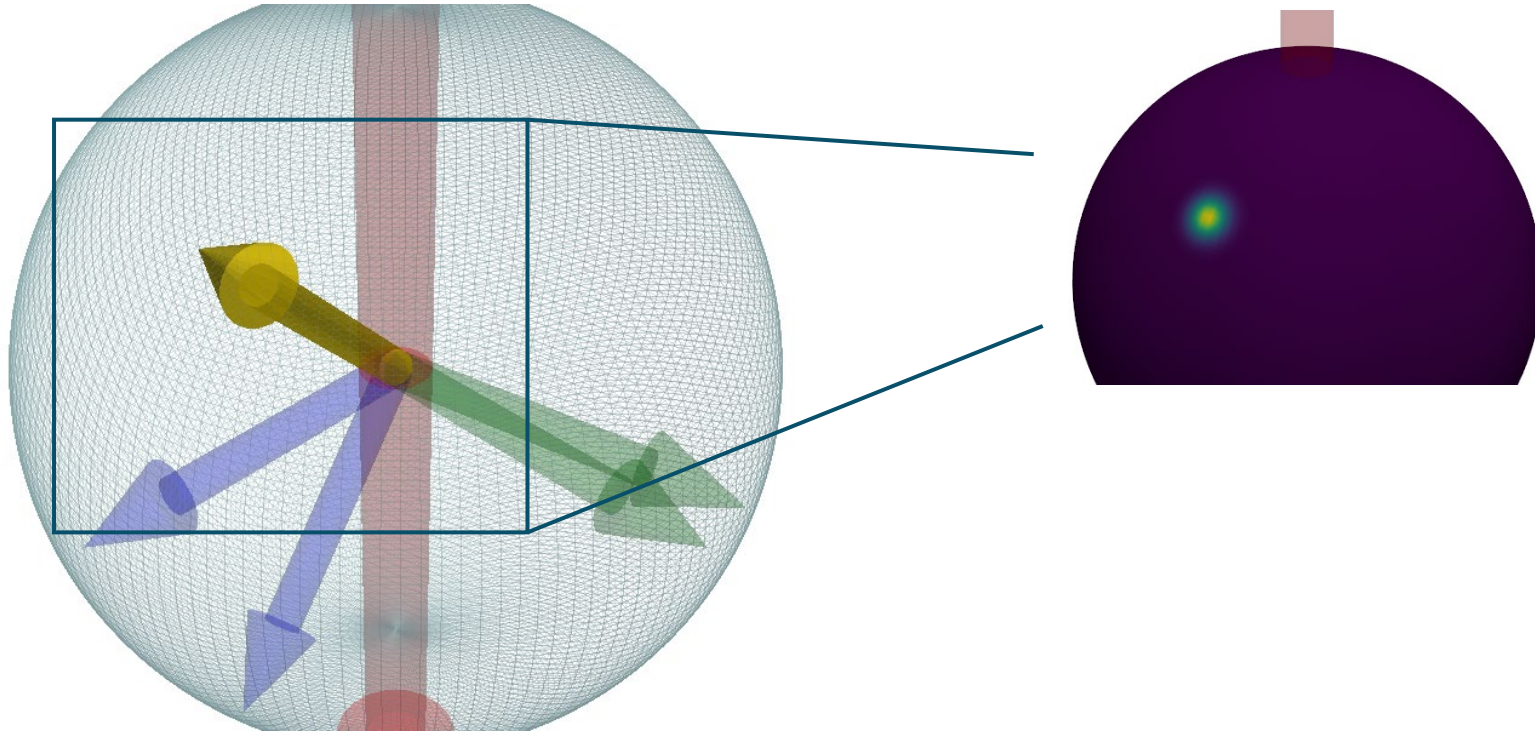
Tanumoy Saha
Hermann Heßling



PulsarDT Version 0.2 additions

In Version 0.1

Only **Polar** spark

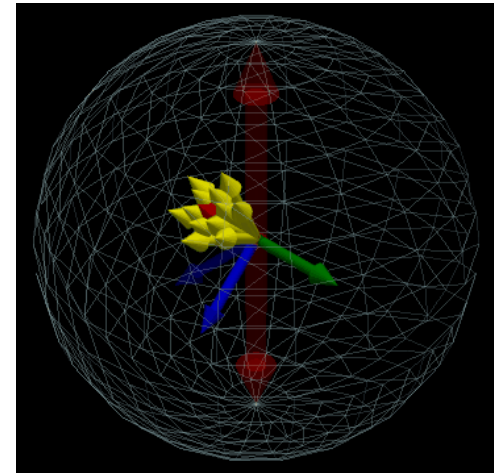
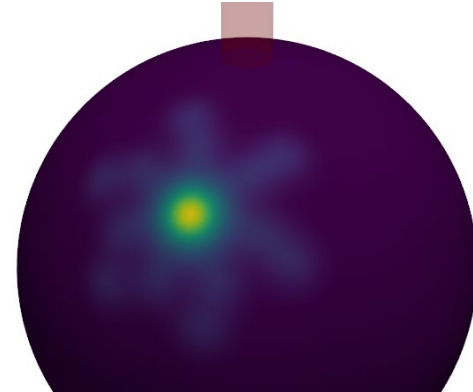
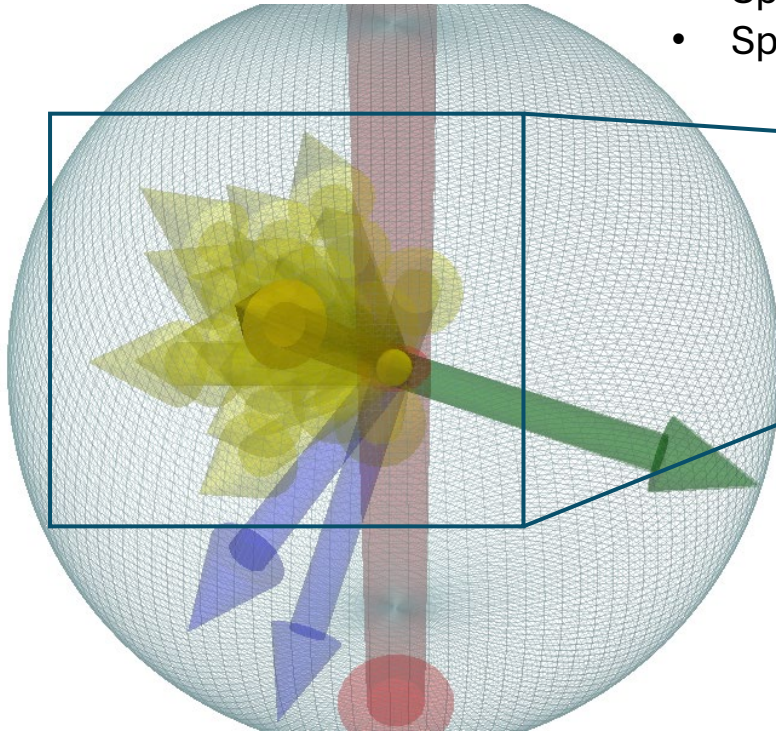


PulsarDT Version 0.2 additions

In Version 0.2

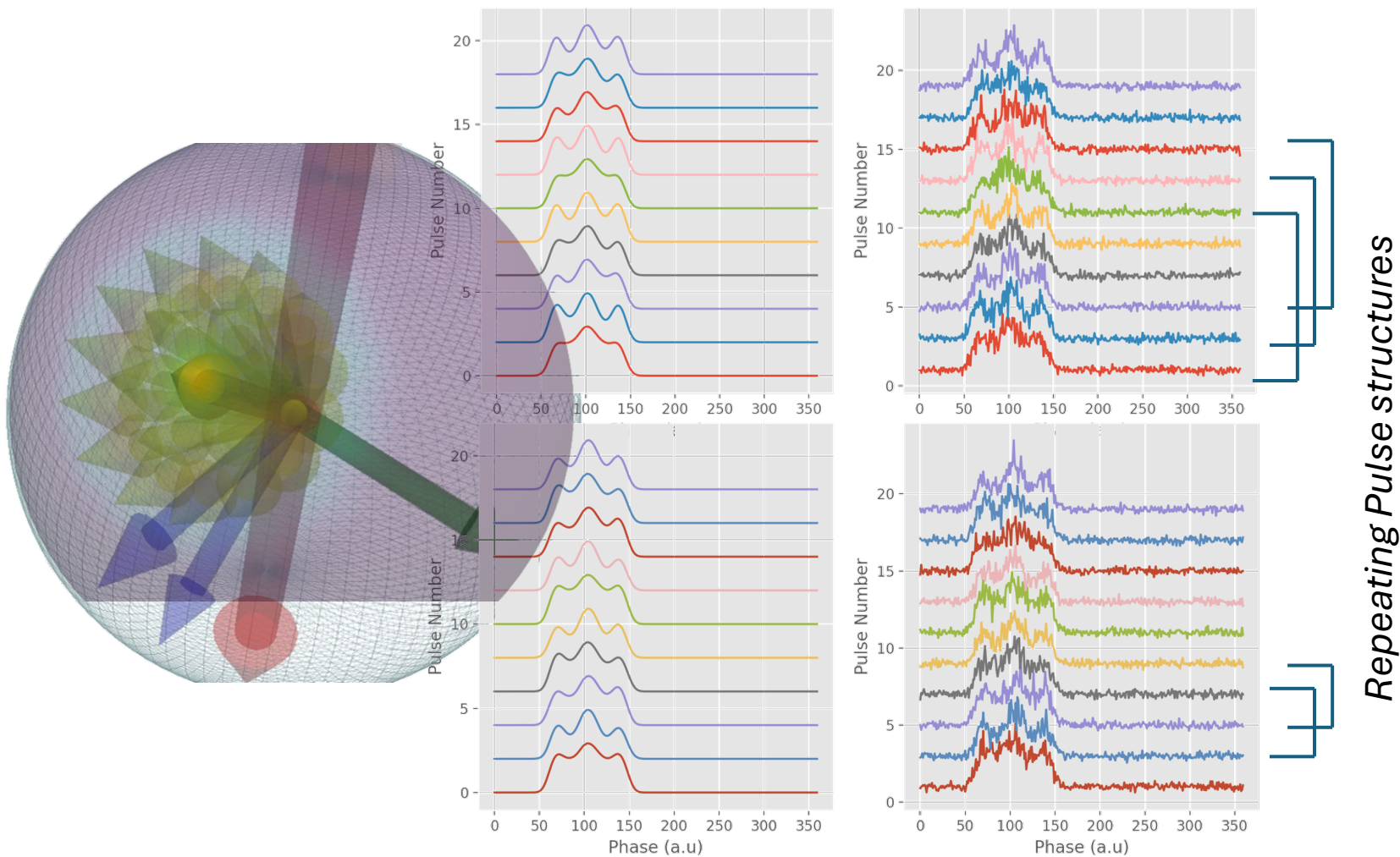
Multi sparks Engineering

- Sparks Physics
- Spark Drifts



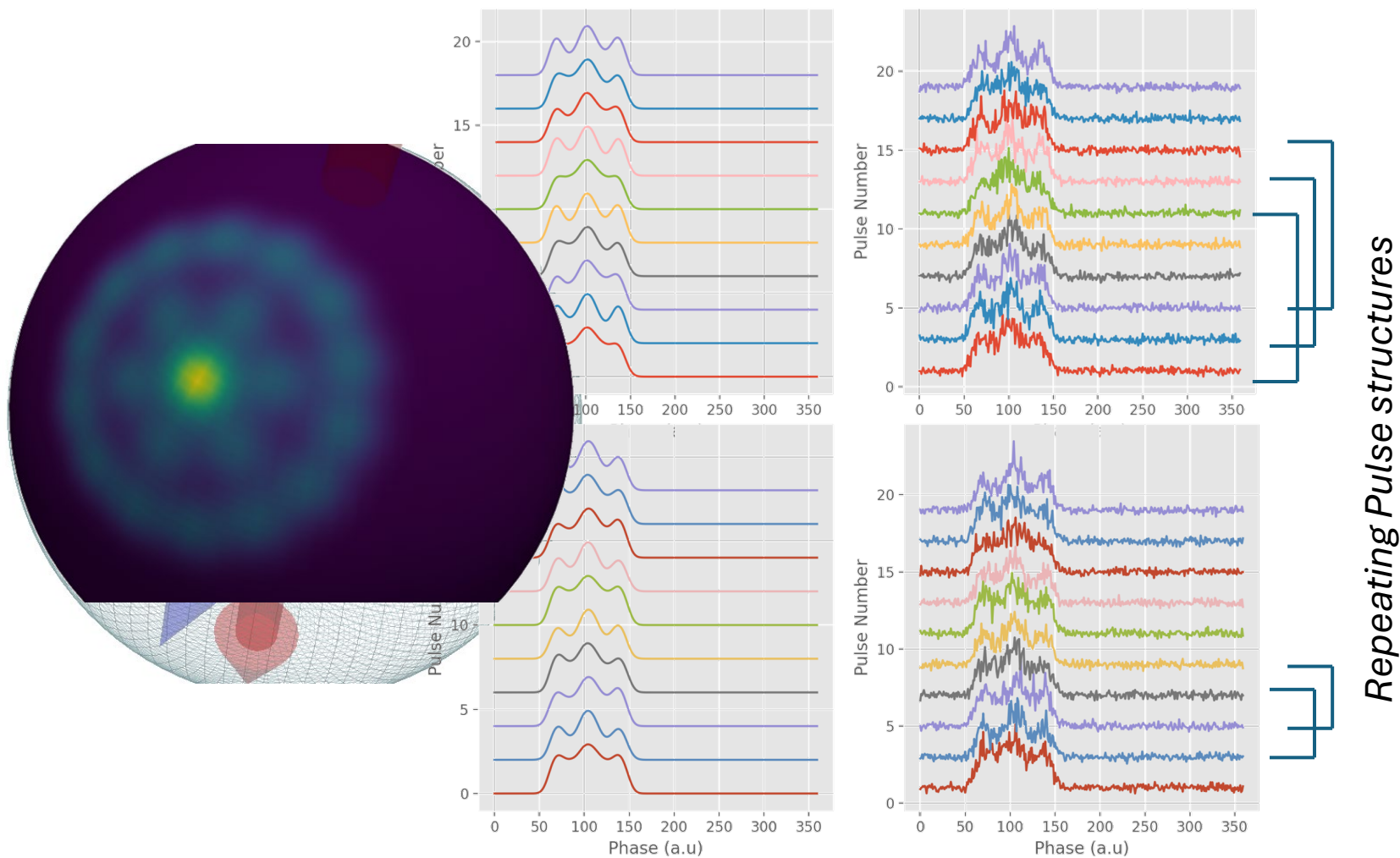
Spark model Based on *Gil and Sendzk, 2000*

PulsarDT Version 0.2 additions



Spark model Based on *Gil and Sendzk, 2000*

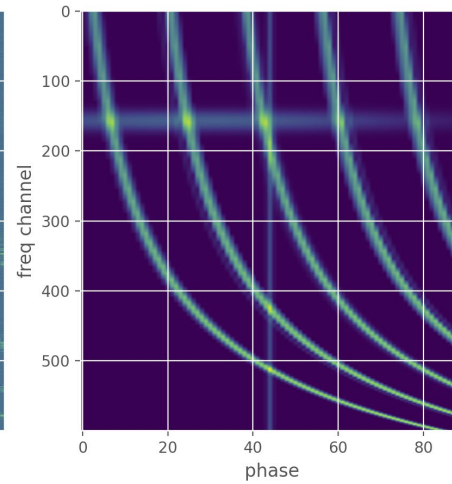
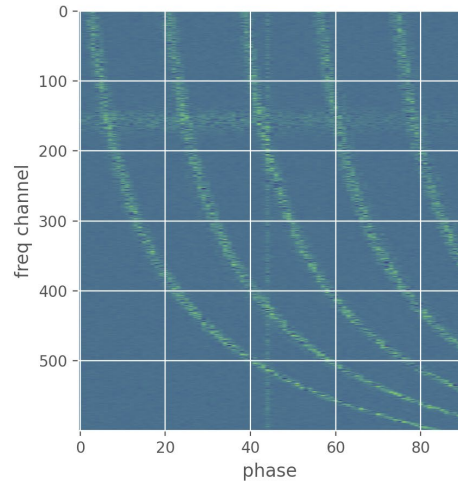
PulsarDT Version 0.2 additions



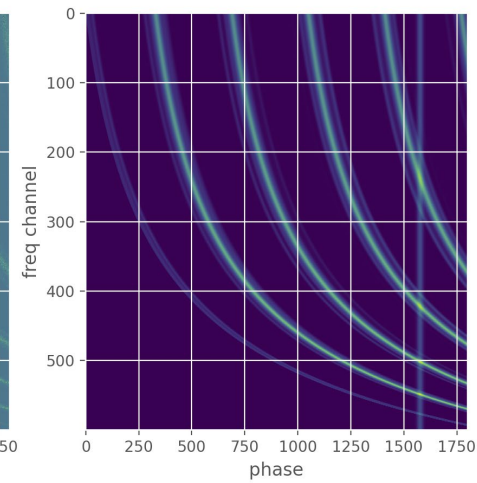
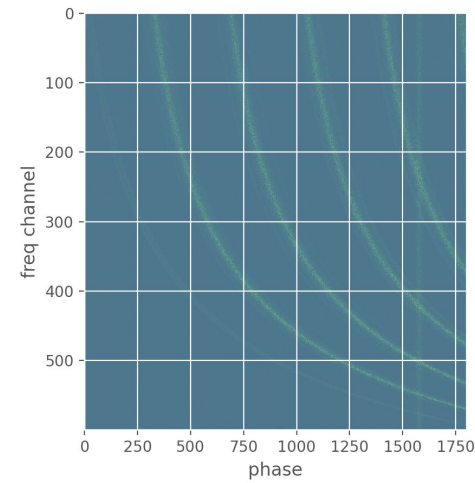
Spark model Based on *Gil and Sendzk, 2000*

PulsarDT Version 0.2 additions

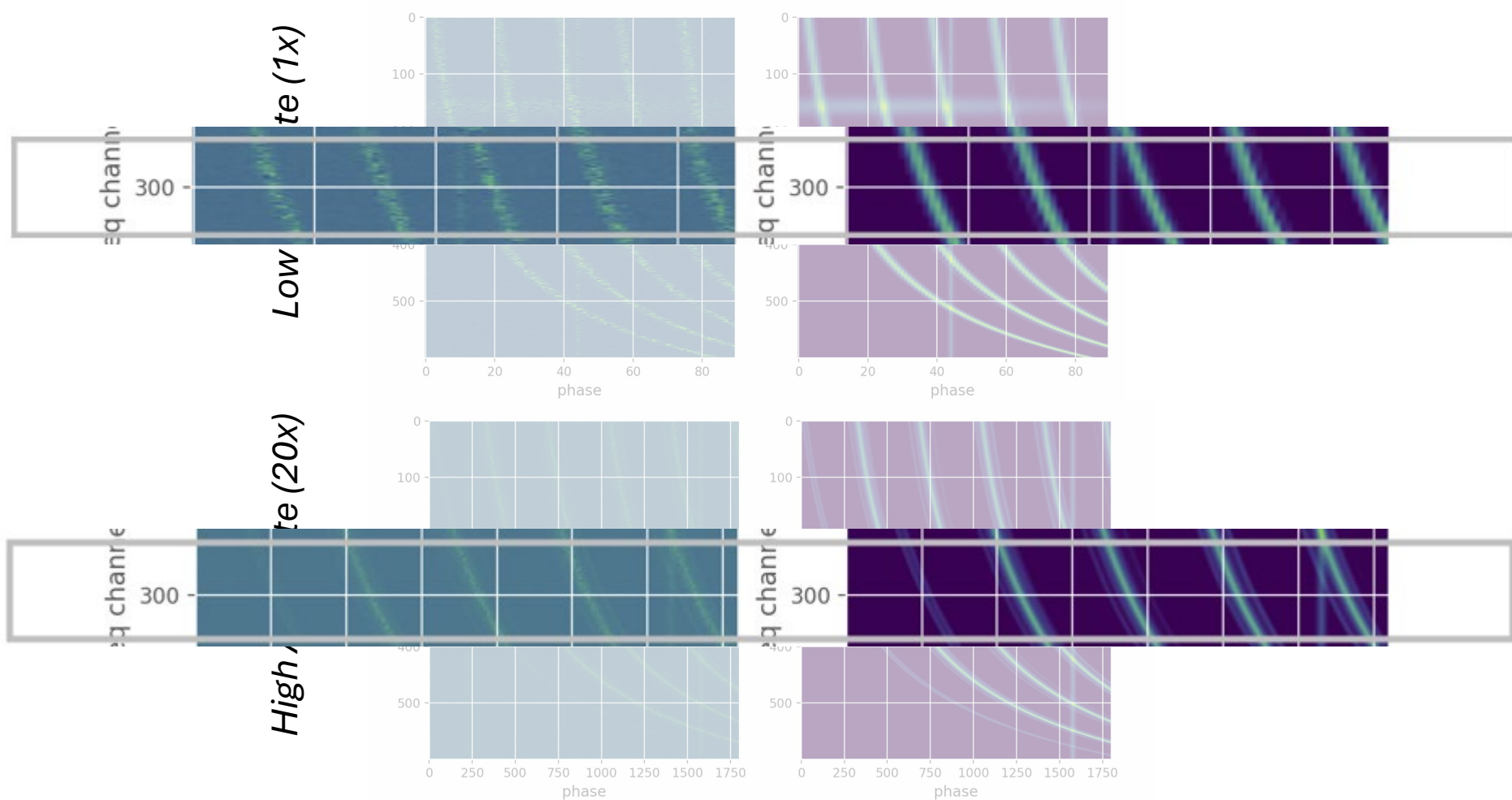
Low Acq Rate (1x)

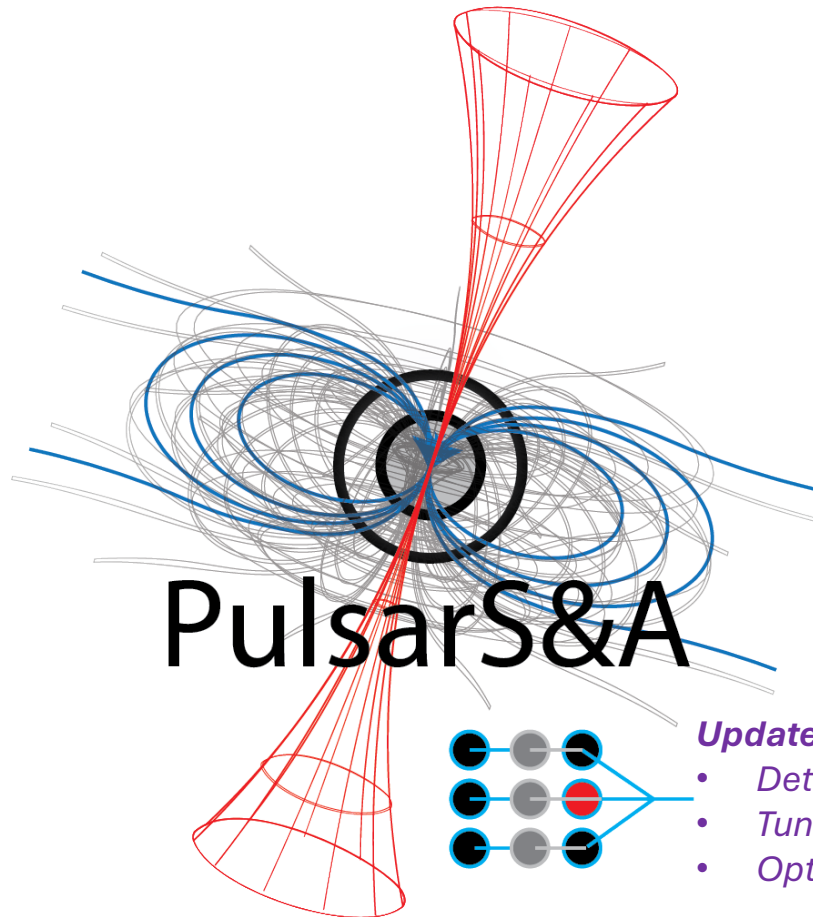


High Acq Rate (20x)

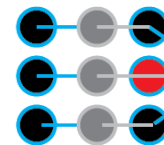


PulsarDT Version 0.2 additions





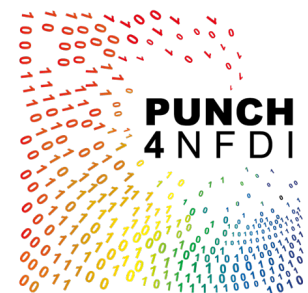
PulsarS&A



Updates in version 0.2

- Detailed documentation
- Tuner Module
- Optimized classifiers

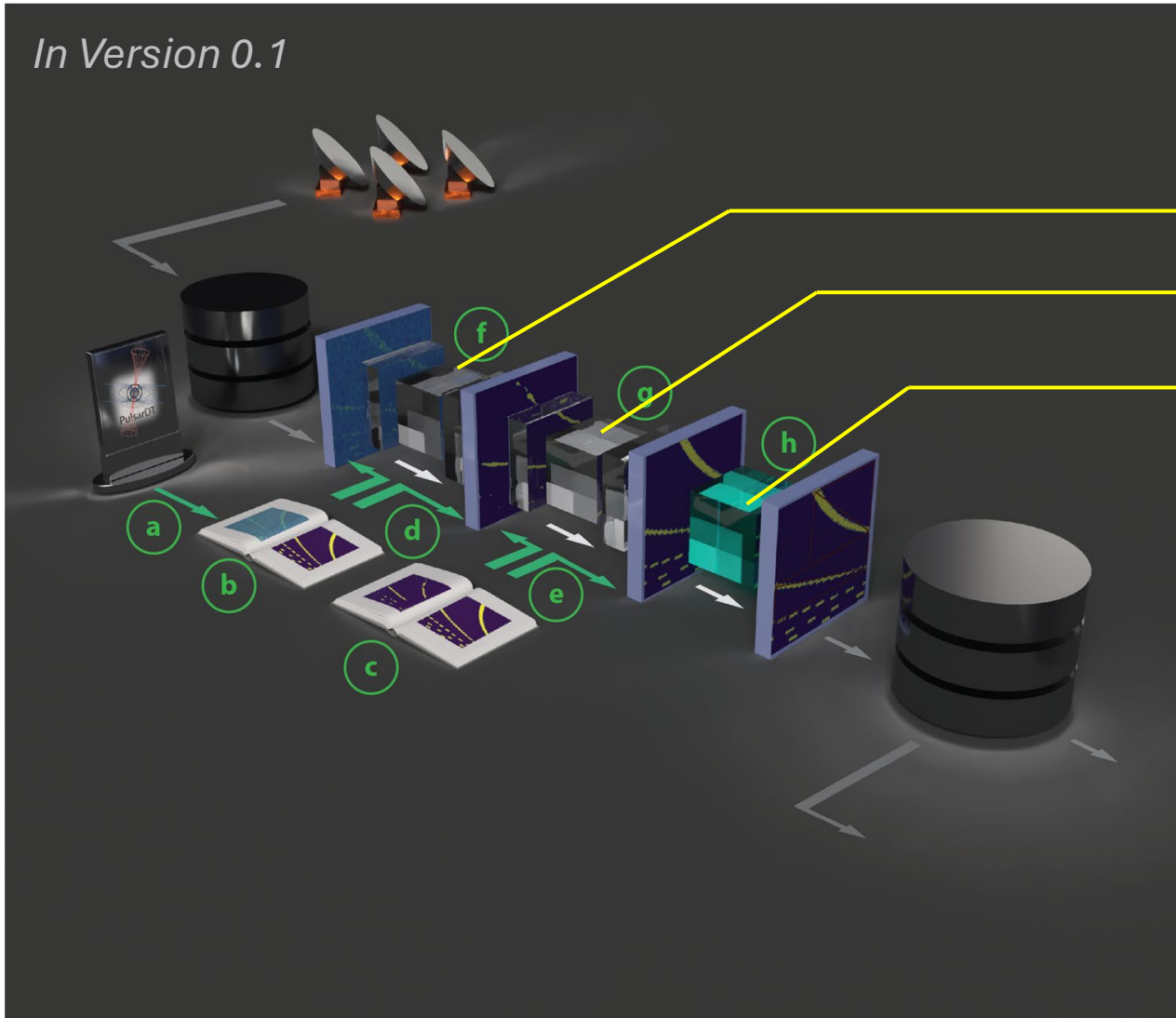
Tanumoy Saha
Hermann Heßling



gitlab.dzastro.de/punch/ml-ppa/pulsarrfi_nn

PulsarRFI_NN Version 0.2 additions

In Version 0.1



Signal reconstruction



Denoising (added as an optional feature in version 0.2)



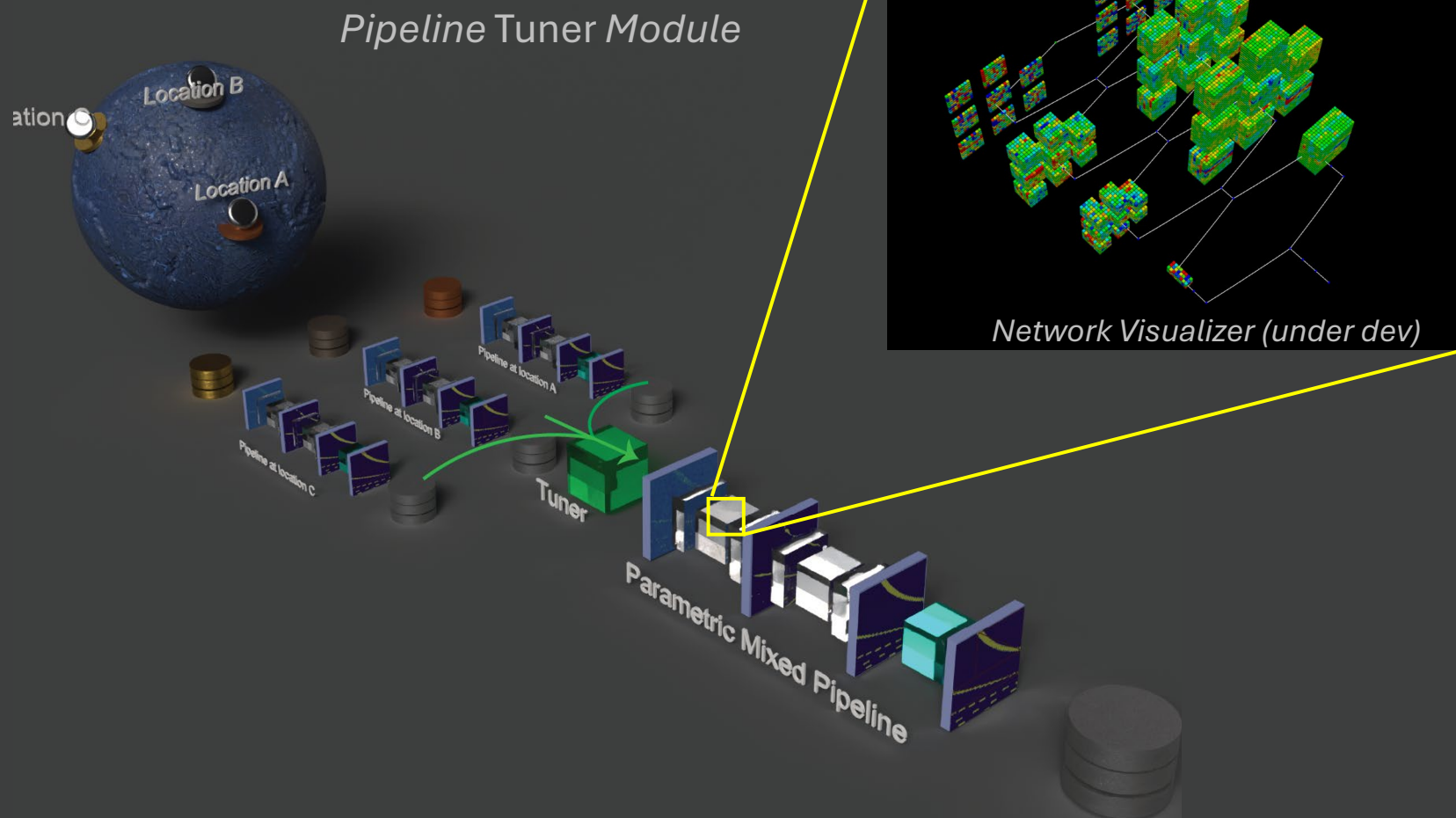
Signal Classification

PulsarRFI_NN Version 0.2 additions

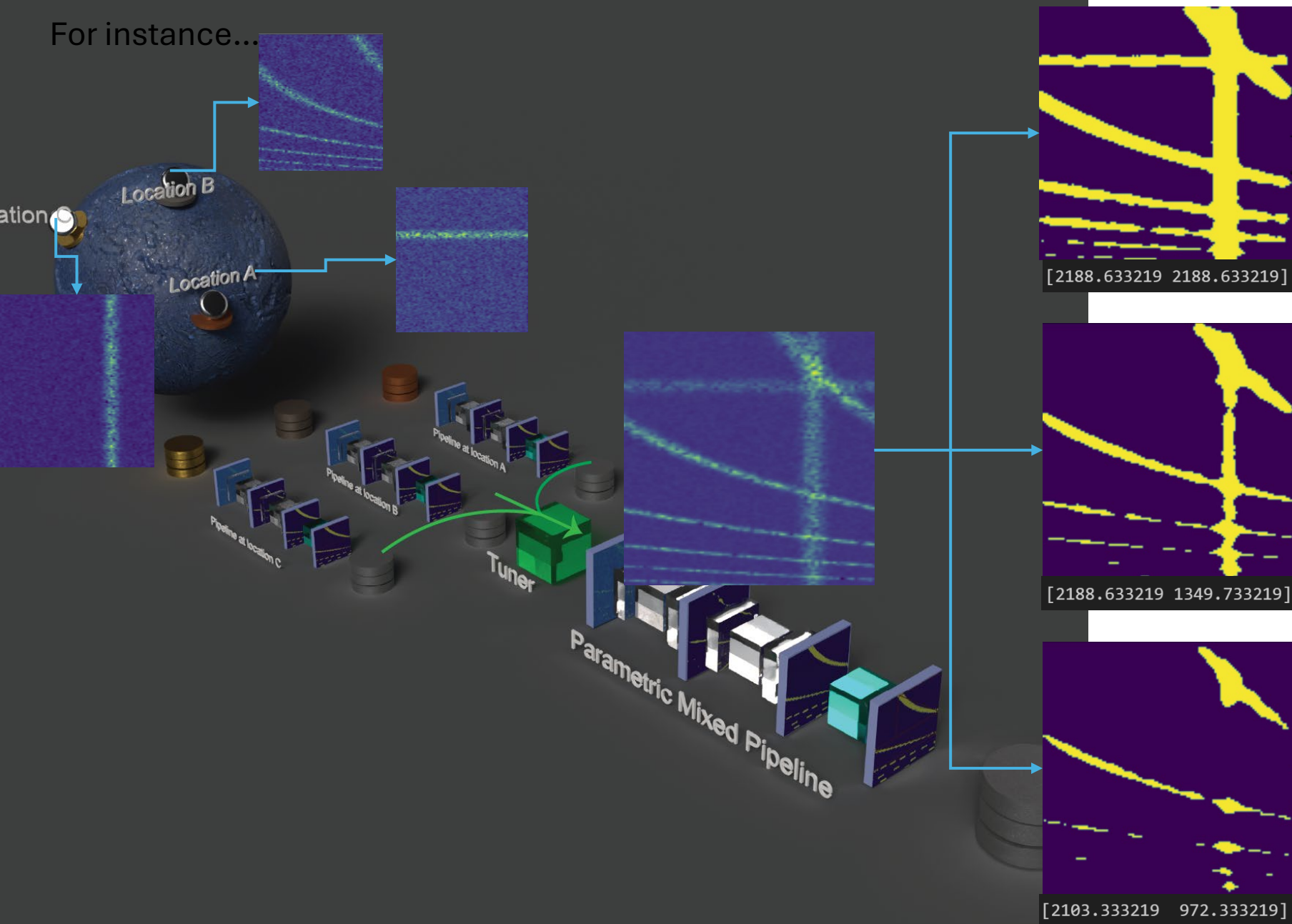


[Readme.md](#) describing the pipeline components

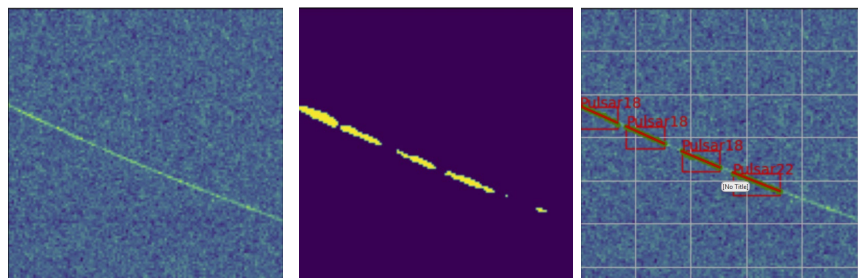
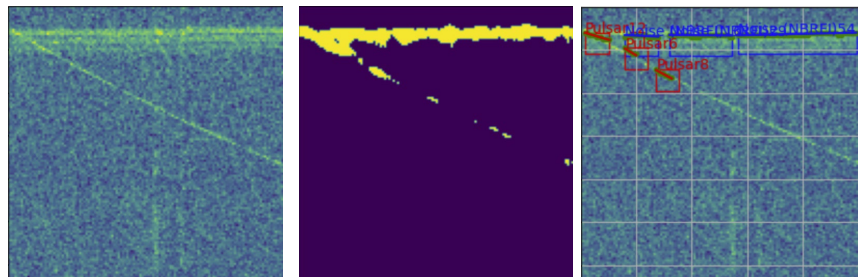
PulsarRFI_NN Version 0.2 additions



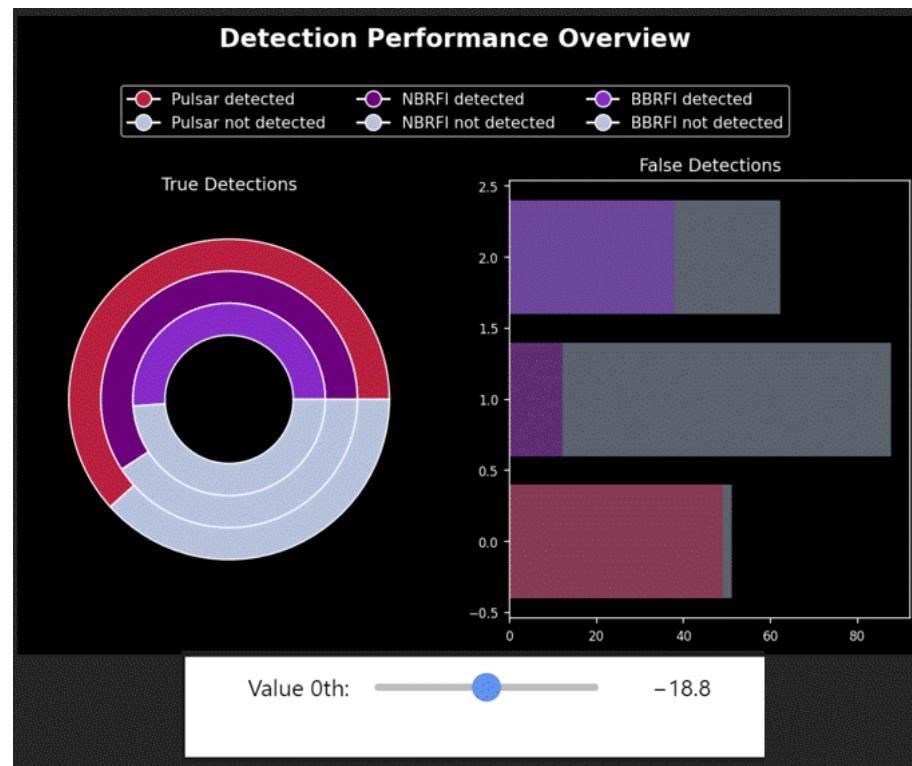
For instance...



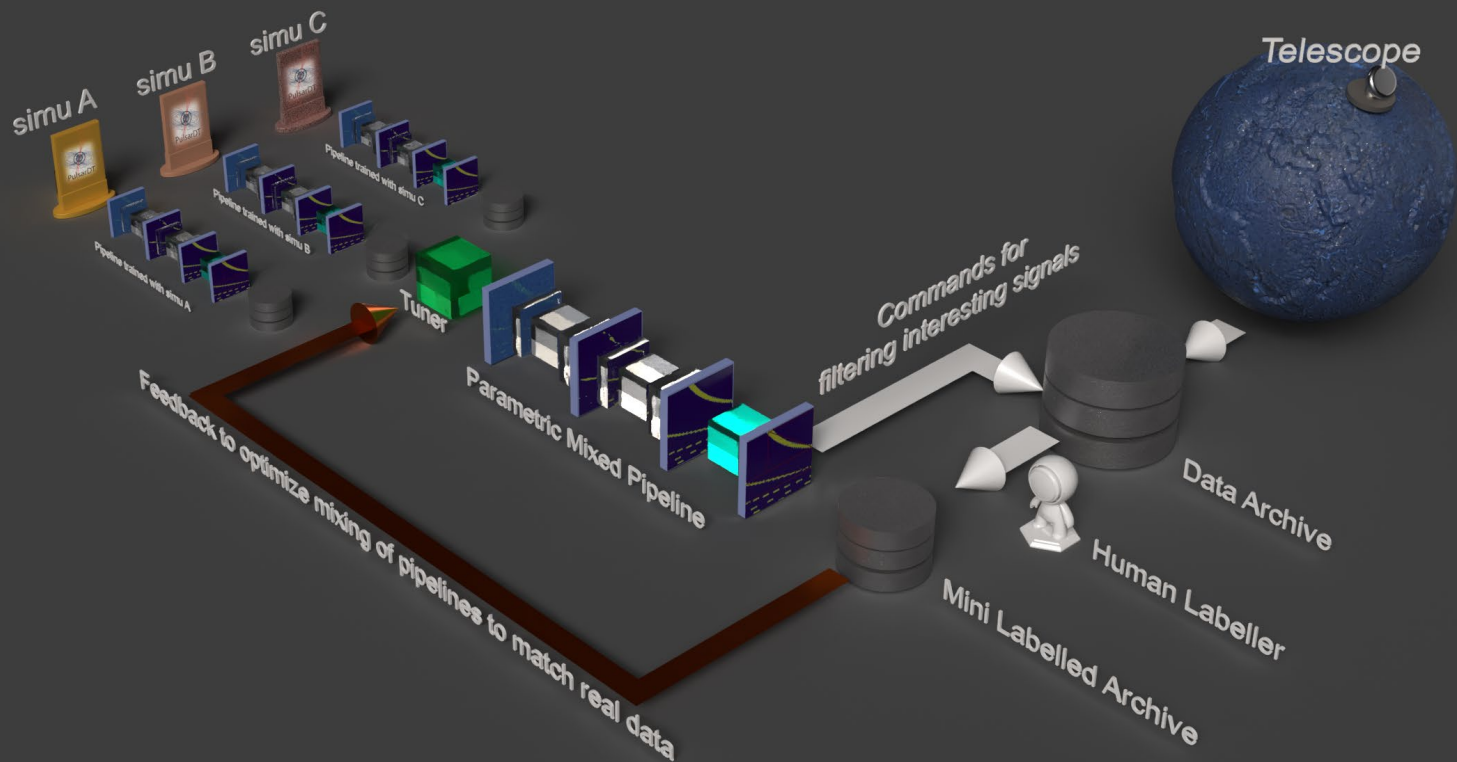
PulsarRFI_NN Version 0.2 additions

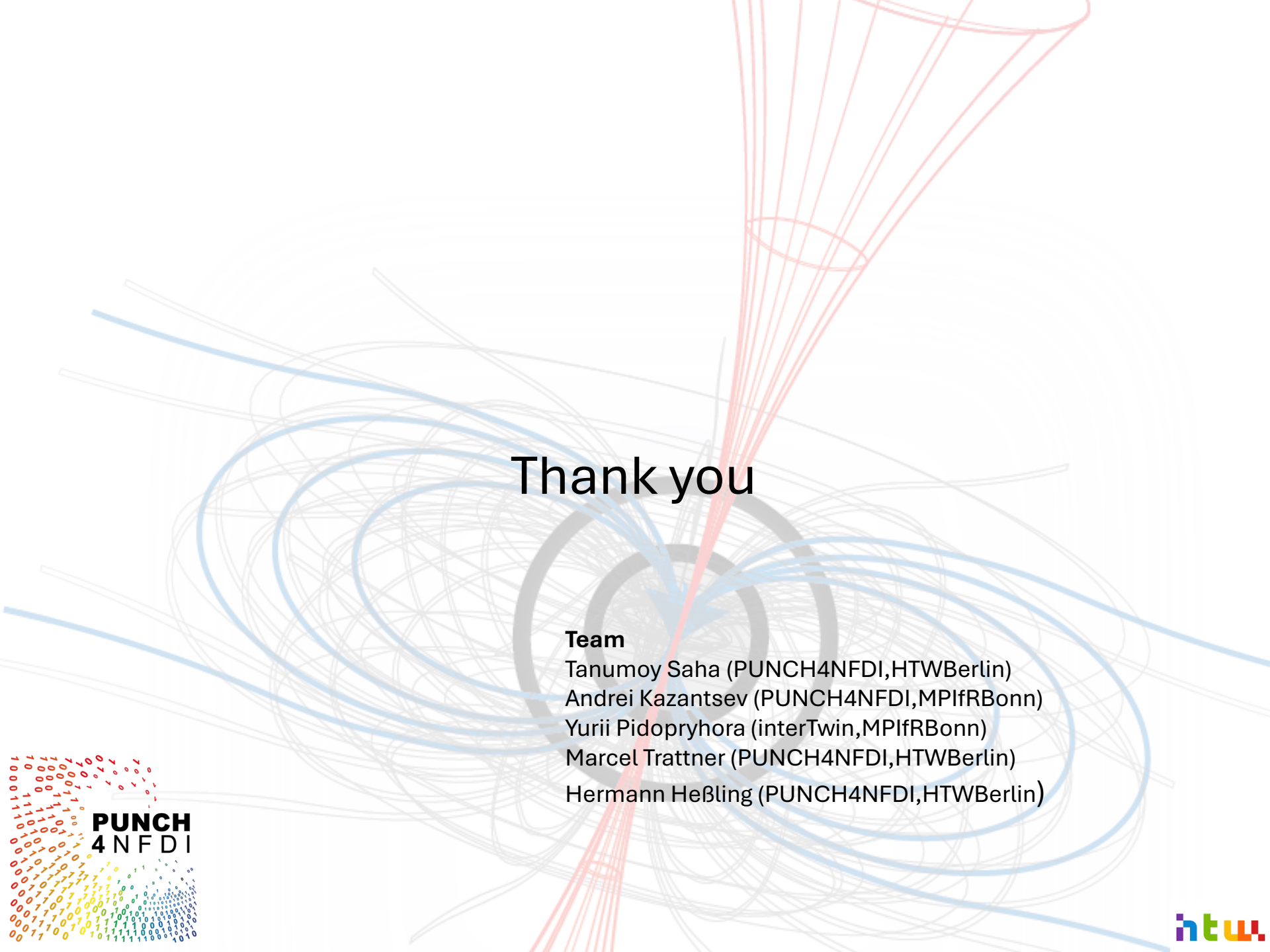


Fake real pulsar data from Andrei Kazantsev



PulsarRFI_NN Version 0.2 (in development)





Thank you

Team

Tanumoy Saha (PUNCH4NFDI, HTW Berlin)
Andrei Kazantsev (PUNCH4NFDI, MPI fR Bonn)
Yurii Pidopryhora (interTwin, MPI fR Bonn)
Marcel Trattner (PUNCH4NFDI, HTW Berlin)
Hermann Heßling (PUNCH4NFDI, HTW Berlin)

