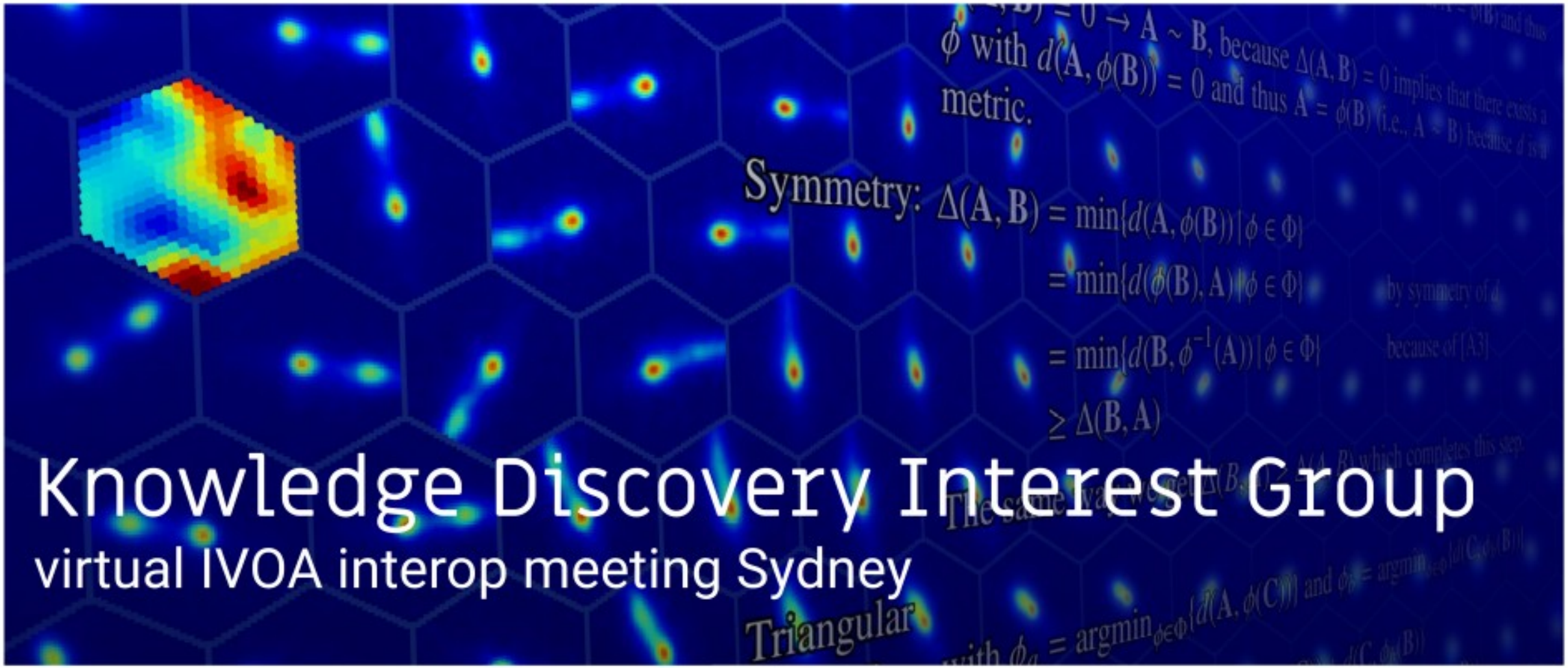
HITS
Heidelberger Institut für
Theoretische Studien



Knowledge Discovery Interest Group

virtual IVOA interop meeting Sydney

Future of Science Platforms

Discussion: is the VO a digital plate archive or an observatory?

- machine learning analysis is building telescopes/instruments for a virtual sky
  - machinery of discovery shifts from instruments to computers
  - should astronomers have all the skill or should they be part of teams
- tables are great but how to do data-science on images, spectra, cubes, time-series
  - we have standards defined, but what to do if a corresponding service is not provided
  - polymorphic data-access / HiPS
  - storage of uncertainties
- are science platforms a solution? how do we standardize those? how to exchange “APPs”? how to orchestrate? program everything in python?