

CDS Cross Match Plugin

- Existing: 2 different modes:
 - remote http service
 - built-in function in Aladin (Java)
- Both initially meant for catalogue planes (i.e. few thousand sources expected at most)
 - 2 resources in a VOTable document + parameters
 - 2 catalogue planes
- Issue: scalability for large data samples

Cross-match for large samples?

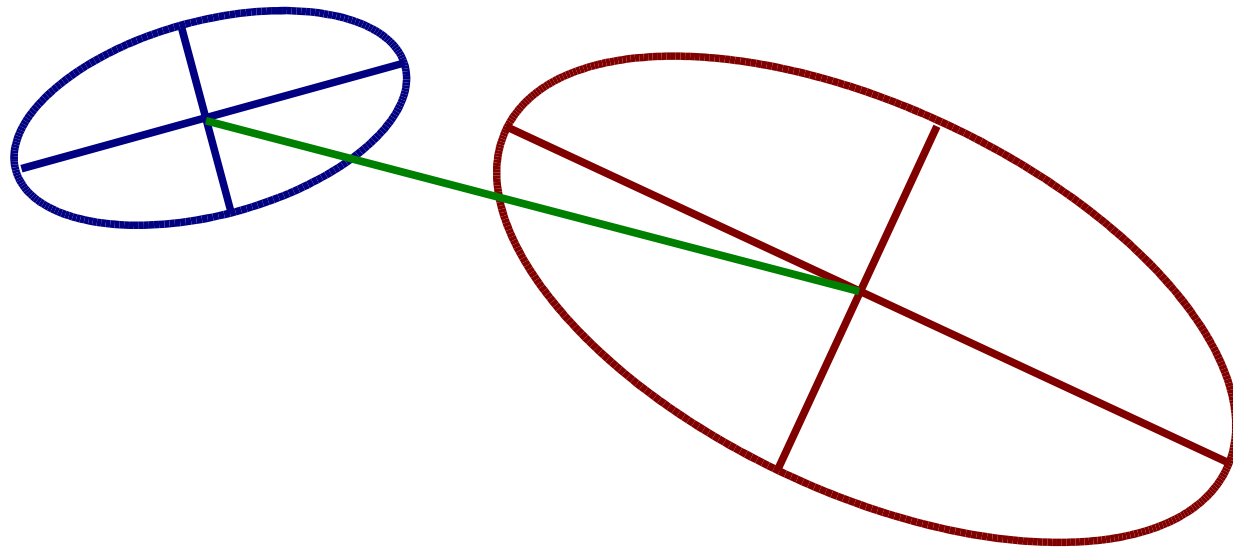
- What are the needs for jan 2005 demo?
- Remote http service:
 - large VOTable overhead
 - memory limitation on servlet (~ few 10,000 sources?)
- Built-in xMatch tool:
 - reported to work for 200,000 vs 400,000 sources (took 14 minutes...)
- VizieR CrossCorrelator service (under dev.)
 - operation is performed on VizieR tables (no need to transfer data, only parameters)

ToDo

- Validate http access (proper URL...)
- Add new functions
 - take errors into account (soon avail.)
- VizieR CrossCorrelator service

Cross-match with errors

(RA1, DEC1, a1, b1, PA1)



(RA2, DEC2, a2, b2, PA2)

- Will be implemented as a new method
- xMatch threshold is expressed as n-sigma (e.g. $0 \leq \text{sigma} \leq 3$)