

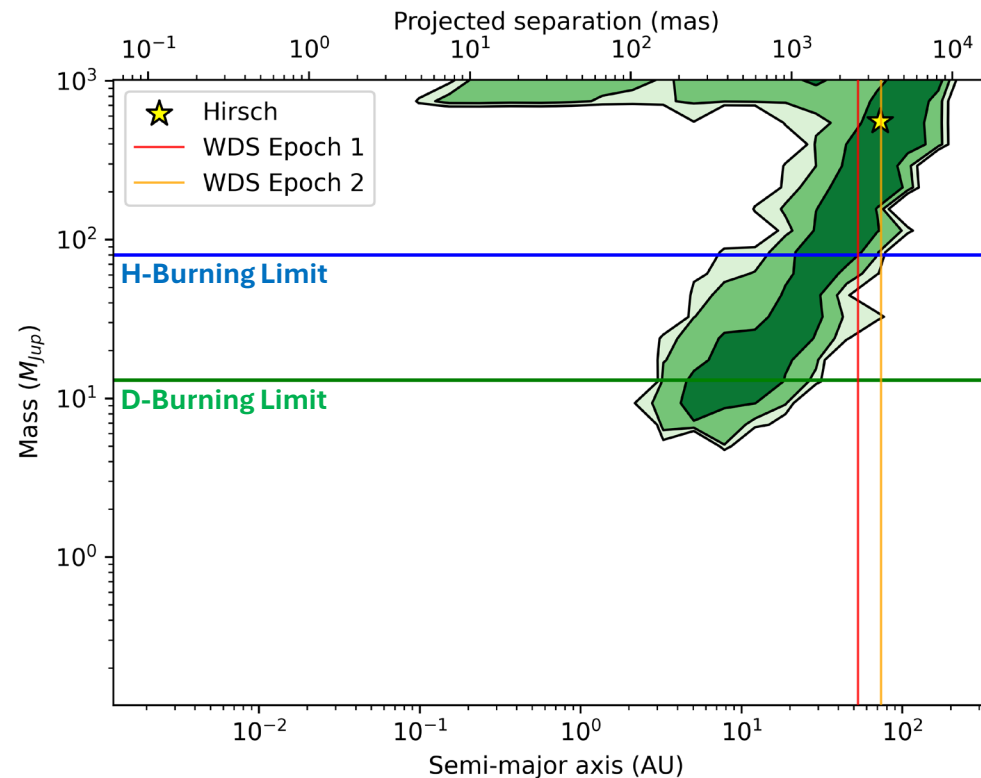
Searching for planetary companions around solar-type stars within 25 pc using *Gaia* astrometry

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Aim: Detect new giant exoplanets using *Gaia* **renormalized unit weight error** (RUWE) and *Gaia*–*Hipparcos* **proper motion anomaly** (PMa)

Use the CNS5 sample to select **solar-type stars** within 25 pc with astrometric excess

Search for **bound companions** with the **GaiaPMEX** tool
→ using **RUWE** and **PMa**



Compare **GaiaPMEX** results with catalogues to **exclude known companions**

ONGOING WORK

New candidates will be prime targets for **future follow-up observations** with JWST, ELT and HWO

Use archival **RV** and **direct imaging** surveys to **constrain the properties** of new candidates