

SUPA IAC Meeting – 26th May 2016

Theme: Astronomy & Space Physics

Theme Leader/speaker: Ken Rice (Edinburgh, Institute for Astronomy))

Edinburgh (IfA + UKATC) St Andrews (Astronomy + Solar Physics) Glasgow (IGR + Astronomy & Astrophysics Group)

Funding: Mainly STFC, but a lot of ERC success, some Leverhulme.



Current Scope of Theme

Edinburgh

Exoplanets, Star and planet formation,
Stellar populations, galaxy dynamics,
Galaxy formation & evolution, AGN, high-redshift
galaxies, Cosmology

St Andrews

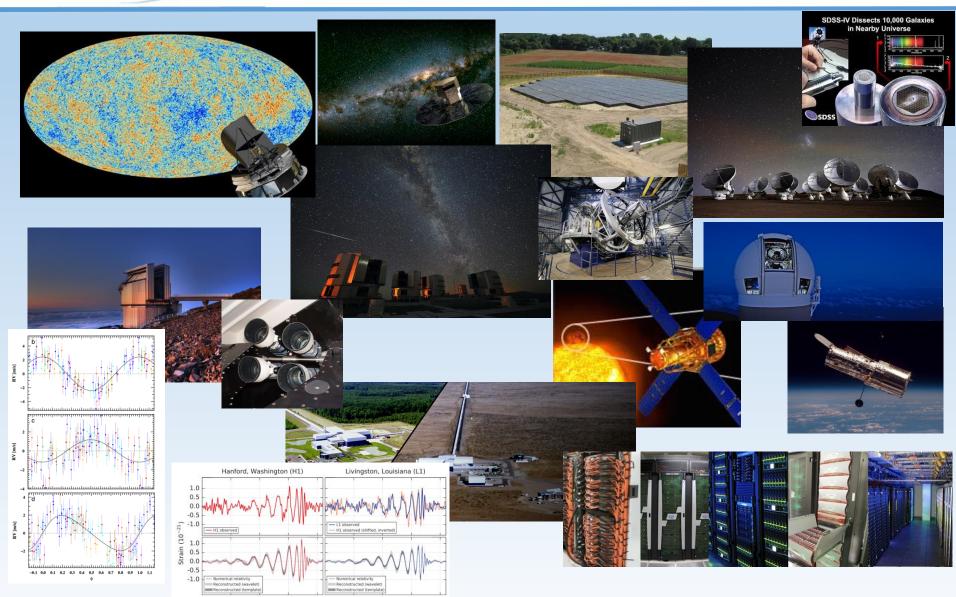
Solar & plasma physics, Exoplanets, star formation, radiative transfer, cool /low-mass stars, galaxy evolution, AGN, Cosmology

Glasgow

Solar & plasma physics, Cosmology, radio astronomy, gravitational waves.

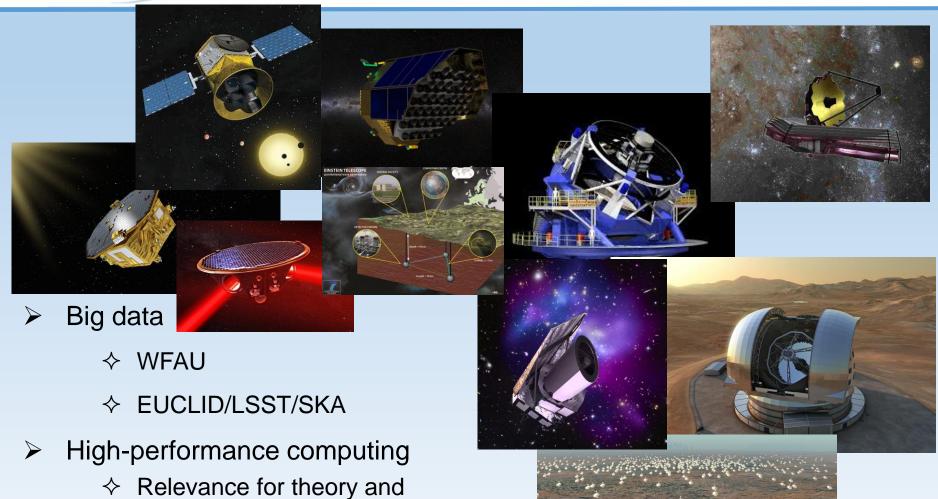


What we do now





The future



Are these resources being provided and used effectively.

observation (EUCLID).



Impacts & spin offs



High precision/stability bonding

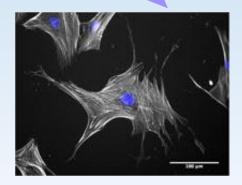


Coating damage

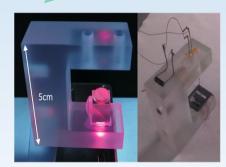




Higgs Centre for Innovation



Stem cell differentiation



Gravity sensors for environmental monitoring/security/oil &

- Business Incubation Centre
 - remote-sensing / spacehardware/ Big Data.
- A formal connection with the Satellite Applications Catapult Centre (Harwell)
- Dedicated lab / clean-room test facilities
- Data visualisation suite



Concluding Remarks

- Vibrant, active community engaged in many exciting and world-leading research programmes/projects
- Already active in many of the future major astronomy and space science projects
 - → Both scientifically and technically (instrumentation, detector development, data management,.....)
- Considerable impact and spin-off opportunities
 - ❖ Blackford Analysis, Higgs Centre for Innovation, gravitational wave detector technology

Things to think about:

- Funding for International PhD students
- Environment
 - Maintaining critical mass in key areas and providing the right environment to prosper.