10. General Fields of Investigation:

- Extragalactic X-ray astronomy.
- Multi-wavelength Astrophysics
  [X-ray, UV, optical, IR (ground, airplane and space-based), mm and radio].
- All-Sky Einstein X-ray Survey ('Slew Survey')
- Quasars and Active Galaxies:

  Form and evolution of continuum emission

  Quasar environments at high redshift

  Searching for extreme quasars

  Unifying the diverse classifications of AGN — the role of obscuration.

  Very low luminosity AGN.

  Constraints on quasar evolution and the diffuse X-ray background.

  Photo-ionization models for the emission line/absorption regions.

  Geometry of active nuclei.

  Interaction of nucleus and host galaxy.

  Accretion disk models for the quasar optical/UV/soft X-ray continuum.

  Emission mechanisms for the quasar continuum (especially IR and X-ray).

  Origin of Radio-quiet quasars

- High Redshift Astrophysics

  Quasar Evolution

  Quasar environments at high redshift

  X-ray Limits (Gunn-Peterson, source counts) on the Intergalactic Medium

  Protogalaxies-Physical conditions in damped Lyman-α absorbers

  The Physical sizes of intervening metal absorption systems in quasar spectra.