

# IF9 White Papers (draft)

- “Gravitation”
  - All things gravity
- “Coupling Experiment and Simulation”
  - Cross section measurements for simulations
  - Modelling non-equilibrium quasiparticle dynamics
- “Microwave and RF Technologies”
  - Circulators, quantum-limited transistor amplifiers
- “Facilities – Foundries”
  - Si, Ge, III-IV, Superconductors; Rad Hard processes and processing; MIT-LL
- “Facilities – Calibration and Test Beam”
  - Water Cernkov at CERN, proton and electron test beams, irradiation facilities
- “Facilities – Low background, Low Noise, Low Temperature”
  - Underground facilities, underground argon supply, SC detecto facility, mK Test Facility; Environmentally stable facility
- “Facilities - Telescopes for On-sky Instrument development”
  - Two proposals, one broader and one focused on Vera Rubin Observatory
- “Collaborative R&D Programs and Interdisciplinary Research”
  - Aka MultiHEP Workshops