Cosmic Rays

1. Detection: the atmosphere, electromagnetic vs hadronic showers, shower theory, hadrons, muons, neutrinos.
3. Main science issues: end of the cosmic ray spectrum, the composition, the sources.

TeV gamma-rays

1. Detection: the atmosphere (pointing for all-sky).
2. Present detectors: HESS et al., HAWK.
3. Main science issues: active galaxies (protons versus electrons), supernova remnants.

Neutrino

2. Detection techniques: water & ice, radio, HAS.
3. Main science issues: sources of CR (supernova, AGN and galaxy), neutrino physics with atm. v's.