

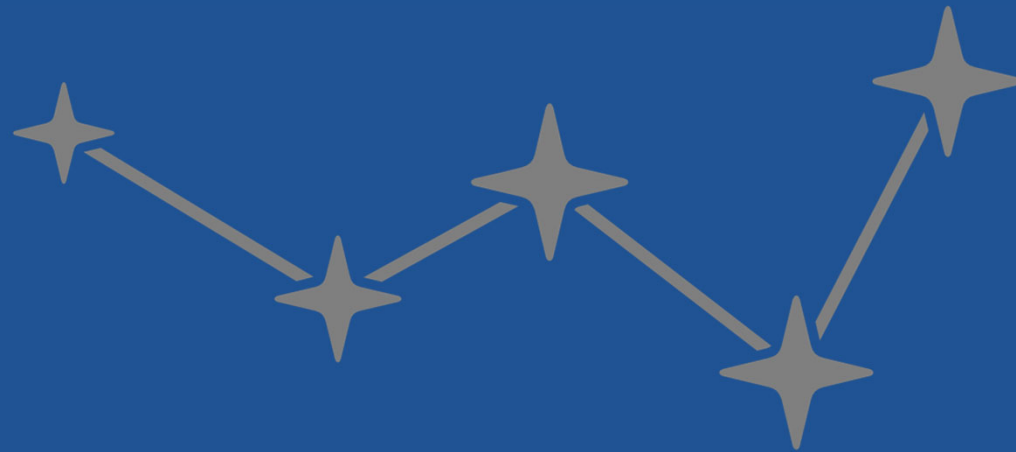
Julius-Maximilians-

**UNIVERSITÄT  
WÜRZBURG**



# Chair of Astronomy and Astrophysics

Institute for Theoretical Physics and Astrophysics



**ASTRO WÜRZBURG**

# Non-thermal Universe

Radioastronomy

Gamma-ray Astronomy

Theory of particle acceleration and propagation

Radiation processes

Particle cosmology: primordial black holes,  
dark matter, neutrinos, metagalactic radiation field. epoch  
of reionization



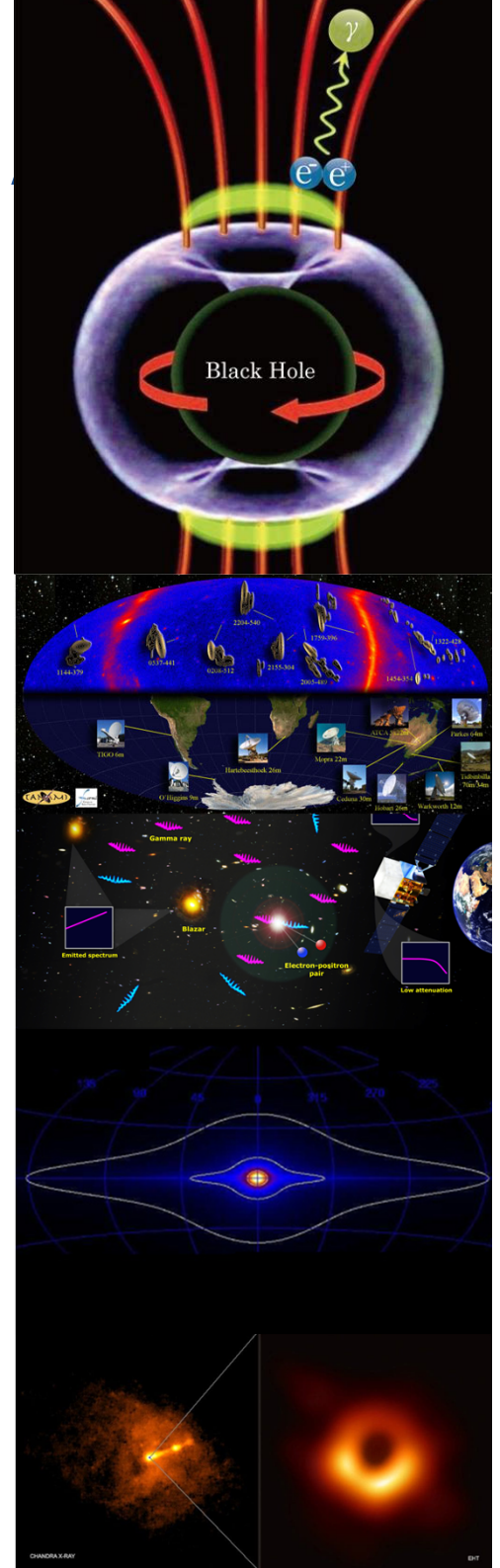
**Karl Mannheim: Particle astrophysics**

**Matthias Kadler: VLBI + multiwavelength studies of extragalactic jets**

**Sara Buson: Fermi-LAT + multimessenger studies of blazars**

**Thomas Siegert: Nuclear astrophysics: radioactive isotopes and antimatter (INTEGRAL / COSI / ASTROGAM)**

**Christian Fromm: Black Hole studies using GRMHD simulations (EHT)**



# International collaborations

**Gamma rays:**

**MAGIC, FACT, CTA, FERMI-LAT, COSI-SMEX, ASTROGAM**

**High-energy neutrinos: KM3NeT**

**Radio VLBI**