

Bonn University

At present 3 groups: Prof. Beck, Prof. Ketzer, Prof. Schmieden (+1 N.N.)
Group members: 6 staff (including Professors), 6 Postdocs (2 BMBF-funded) ,
2 PhD students

Main physics interests:

- Hadron spectroscopy (light baryons, light, strange, charmed mesons)
- Partial-wave analysis, phenomenology
- Nucleon structure

Hardware experience:

- Micropattern gaseous detectors, Time Projection Chambers
- Scintillating fibers
- Trigger
- Readout electronics and DAQ
- Polarized target

Present activities:

- COMPASS experiment (SPS CERN)
- CBELSA/TAPS and BGO-OD experiments (ELSA, Bonn)
- ALICE experiment (LHC CERN)
- Crystal Ball (MAMI, Mainz)
- NA64 experiment (SPS CERN)

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COMPASS:

- Responsibilities in setting up the apparatus, preparing and carrying out measurements, data analysis
- Main physics interests: SIDIS, spectroscopy
- Hardware responsibilities: SciFi, GEM, Trigger
- Main analysis contributions: Transversity, K-multiplicities, spectroscopy

Physics interests in COMPASS++/AMBER:

- Short term: elastic muon-p scattering (proton radius)
- Mid-term: spectroscopy with low-energy antiprotons, pion/kaon structure
- Long-term: spectroscopy with RF-separated K beam, Primakoff

Possible hardware contributions:

- GEM, SciFi maintenance, polarized target support
- New development: Large-area PixelGEM detectors
- Active target TPC
- Trigger, DAQ