

# The CTA Group at DESY

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71<sup>st</sup> PRC, Closed session

Hamburg, April 29, 2011

- > Young Investigator Group essential
- > Man-power above POF planning for post-docs and engineers
- > Strong support from the computing groups, mechanics and electronics design teams in Zeuthen (and access to mechanics support in Hamburg)
- > Investment from POF at a very good level –  
Need to prepare carefully the building phase
- > Major issue after 2014: running/operation costs



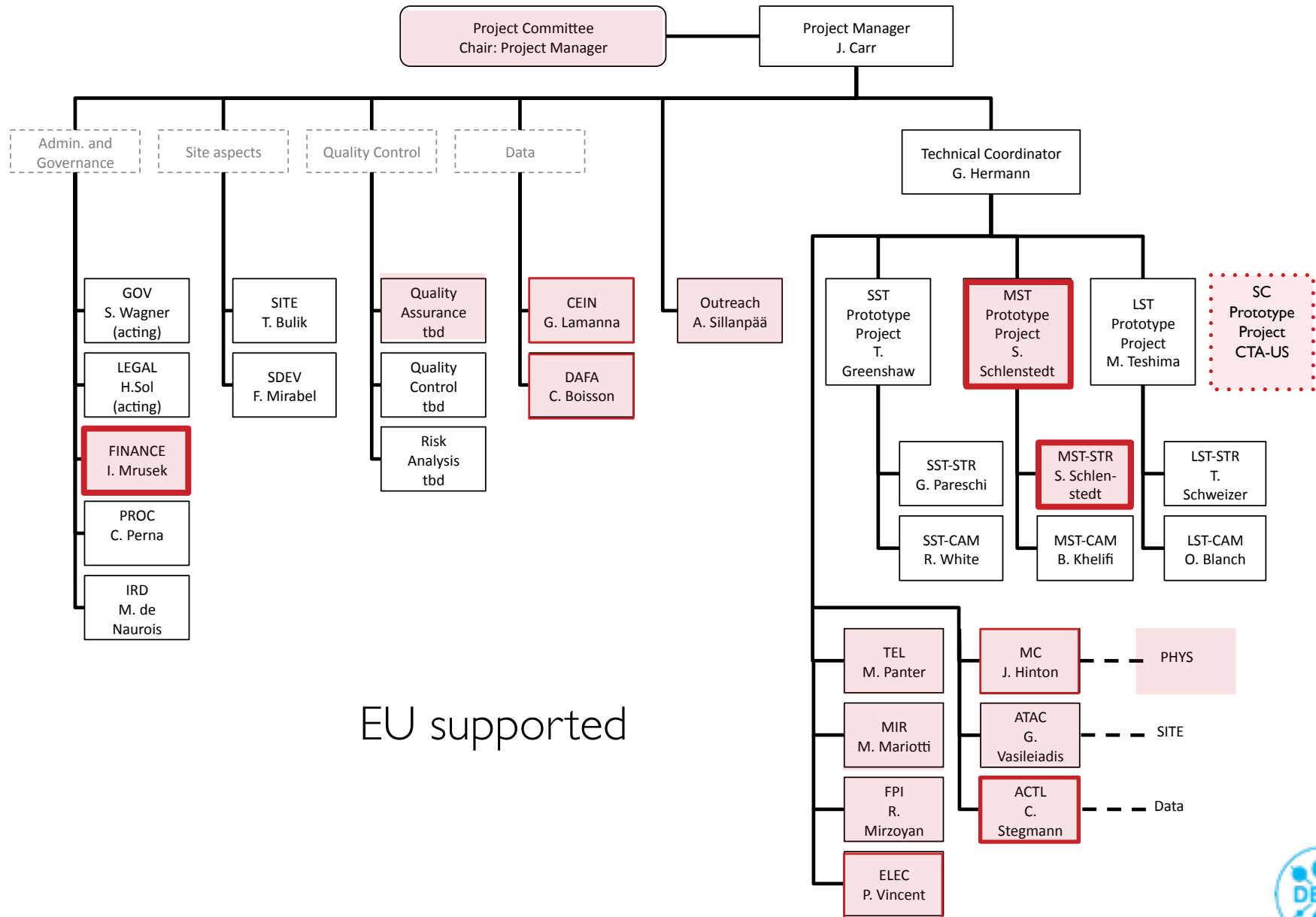
# Recent Developments: BBC

Helmholtz bonus award Brandenburg/Berlin cluster for multi-messenger physics, cosmic source simulations and data mining – DESY with Potsdam and Berlin

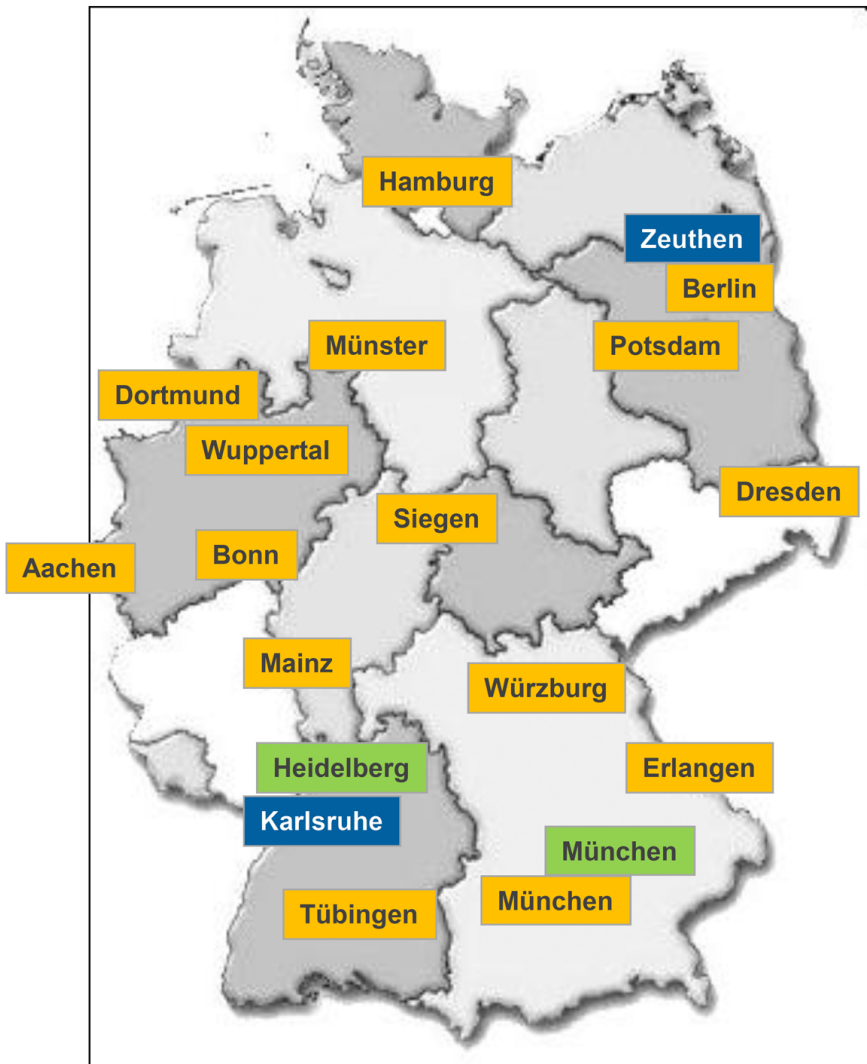
- > One PhD for dark matter search with CTA at HUB
- > One PD on cosmic source simulation with theory group at UP
- > One PhD for point source search in IceCube with interim professor A Kappes at HUB
- > One DESY tenure researcher linked to UP filled, with one PhD FERMI analysis and potentially one PhD on galactic/ extragalactic astrophysics



# Work Packages in Prep Phase

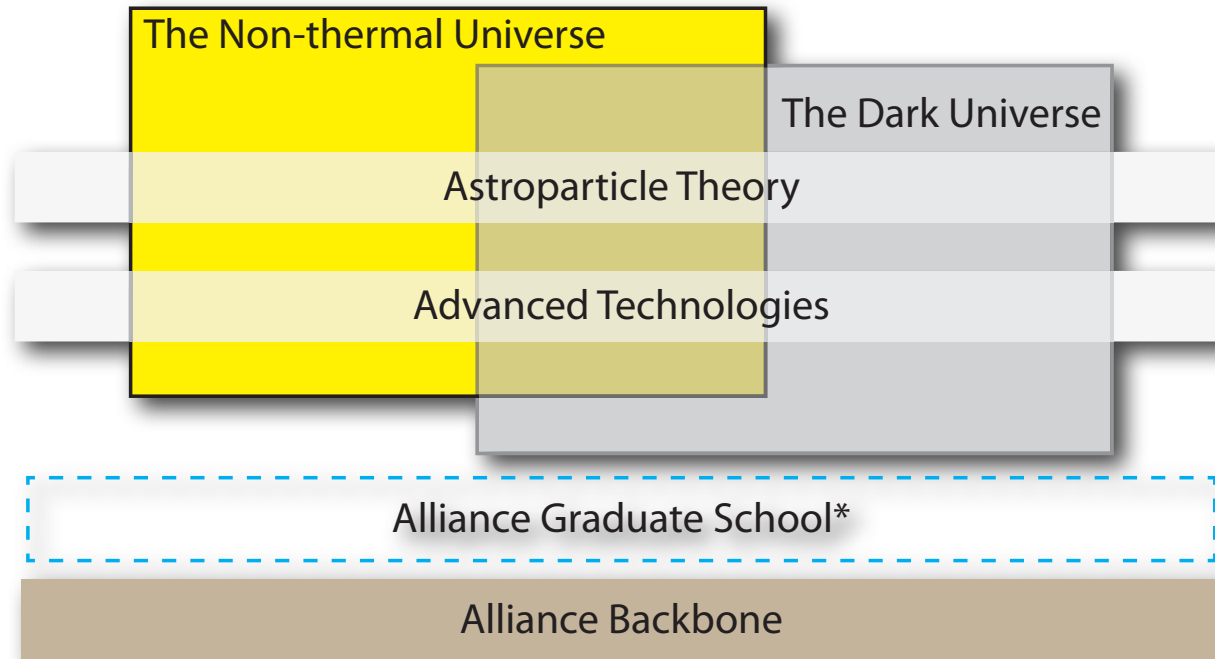


- > Argentina, Austria, France, Germany, Italy, Poland, Spain, Sweden, Switzerland, South Africa, UK, USA
- > April 18<sup>th</sup> in Bonn, next meeting September 14<sup>th</sup>  
CERN, sub-committee formed
- > Main topics: funding decisions and cost model, legal structure, site selection, specifications/ design readiness, risk analysis
- > Context ESFRI and local roadmaps
- > Oversight committees



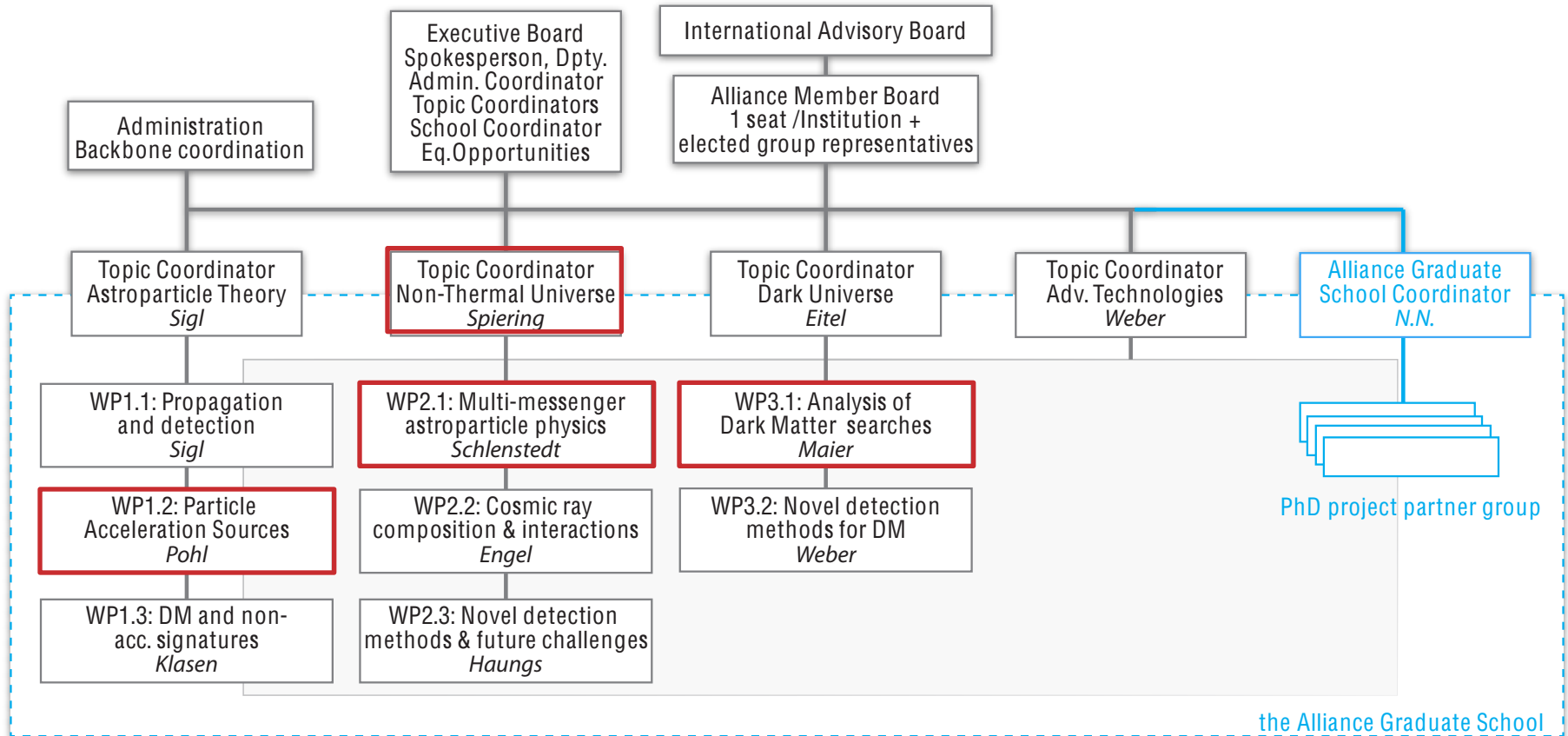
- > Centered around the key projects of the Helmholtz Programme
- > Large part of the German community: 2 HGF centres, 15 universities, 3 associated partners
- > ~100 senior staff, ~100 PhD directly

# The structure of HAP



Cooperation driven by scientific curiosity  
and by complementary approaches

# HAP Organisation



*proven, efficient structure - ready to work*





- > Five topics in Helmholtz in non-thermal (cosmic rays, gamma-ray, high-energy neutrino) and dark sector (neutrino mass, dark matter) connected by theory
- > Overall volume 2 M€/ year for five years: man-power, new technologies and backbone
- > Will introduce Graduiertenkolleg, support schools
- > Favourably reviewed in April, start (if confirmed) in July
- > CTA: concentrate on dark matter search and array control – strengthen DESY's leading role