



UNIVERSITÄT

AEC
ALBERT EINSTEIN CENTER
FOR FUNDAMENTAL PHYSICS

UNIVERSITY OF BERN

MIDTERM REVIEW MEETING JUNE 24, 2022

H2020-MSCA-ITN-2019 effort (GA 858199)









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University of Bern

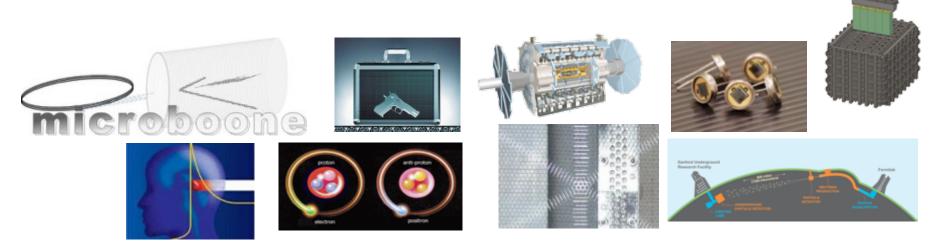
- Founded 1834
- 19k students, 8 faculties, 529 professors
- Laboratory for High Energy Physics
 - ~50 People (Director: Prof. M. Weber)
 7 senior/faculty, 10 PostDocs, 20 grad students + tech, admin, undergrads
- Albert Einstein Center for Fundamental Physics since 2010
 - One of 10 competence centers of the University
 - One of the largest (academic) particle physics center in Switzerland





LHEP/AEC University of Bern

 HE-frontier, Neutrino physics, Detector Development, Applications to Medical, Neutron



On MCSA INTENSE: short baseline neutrino physics





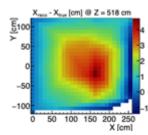
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Short baseline neutrino I

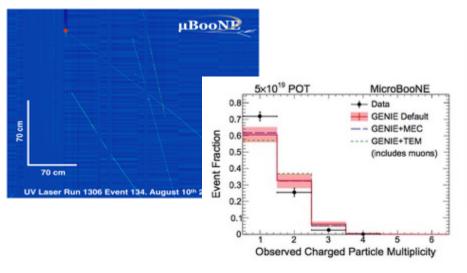
MicroBooNE

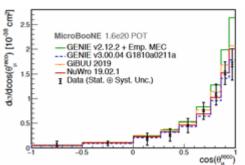
- Major contribution to the construction
- Developed and installed a UV-laser calibration system
- Developed and installed the cosmic ray tagger
- Lead in the physics analysis management
- Precise determination of the electric field
- Analyses in cross section (double differential, 0Pi0p)

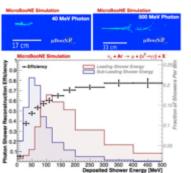
















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Short baseline neutrino II

SBND

- Cosmic ray tagger
- Measurement of "rock" neutrinos at SBND
- UV-laser calibration system





