## Origin, Interaction and Propagation of Energy Cosmic Rays

P. L. Biermann<sup>1,2,3</sup>

- <sup>1</sup> Max-Planck-Institut für Radioastronomie Bonn, Germany
- <sup>2</sup> Department of Astronomy & Physics, University of Bonn, Germany
- <sup>3</sup> Department of Physics and Astronomy, University of Alabama, Tuscaloosa, USA

The high energy cosmic ray particles are the most energetic particles known to us in the universe. In studying their sources, interaction and propagation, many young students from Romania have contributed, and are still contributing today – and all of them have been students of Mircea Rusu. There are students connected to AUGER, to LOPES, to MAGIC, to identify some experiments; they have contributed to the physics of black holes, plasma physics, cosmology, gravitational physics, magnetic fields, and many other aspects. Those students, who came from Romania to Bonn, and then spread through the world, now have reached locations like Chicago, Illinois, USA; Tuscaloosa, Alabama, USA; Utrecht, Amsterdam, Nijmegen, in the Netherlands; Zürich, Switzerland; Melbourne, Australia; Dortmund, Wuppertal, Potsdam, Bonn and Karlsruhe, Germany, and other locations. I will describe the physics and outline specifically the work of these young scientists.