Statement on

"Black hole remnants and the safety of the LHC"

Prof. Dr. h.c. Horst Stöcker^{1,2,3}, Prof. Dr. Benjamin Koch⁴, and Prof. Dr. Marcus Bleicher^{1,2}

¹Institut für Theoretische Physik, Goethe-Universität ²Frankfurt Institute for Advanced Studies (FIAS) ³GSI Helmholtzzentrum für Schwerionenforschung GmbH ⁴Instituto de Física, Pontificia Universidad Católica de Chile

9 January 2014

We had investigated more than five years ago this, as we called it, "weak radiation scenario" (which has now been reconsidered by others) in our paper:

"Exclusion of black hole disaster scenarios at the LHC" Benjamin Koch, Marcus Bleicher, Horst Stöcker Jul 2008. 9 pp. arXiv:0807.3349 [hep-ph]

Published in: *Phys. Lett.* B**672** (2009) 71–76

DOI: 10.1016/j.physletb.2009.01.003

The so-called "weak radiation scenario" in brief goes like this:

The hypothetical black hole may eat more than it emits by Hawking radiation, then becomes electrically charged, by eating more and more ions and electrons – then the electrically charged black hole is stopped in the earth or in the sun.

Both heavenly bodies, fortunately, however do still exist today, although both have been exposed – for billions of years – to ultra-high-energy cosmic radiation...

Hence, we concluded clearly already in our 2008 paper:

"There is no hazard for the earth or sun due to hypothetical black hole remnants."