

**Dr. Yonit Hochberg**

**Racah Institute of Physics**

**The Hebrew University of Jerusalem**

Dr. Yonit Hochberg is a faculty member at the Racah Institute of Physics at the Hebrew University of Jerusalem. She obtained her Ph.D. from the Weizmann Institute of Science in 2013, after which she was a postdoctoral fellow at the Berkeley Center for Theoretical Physics and at Cornell University, before returning to Israel as a faculty member in 2017.

As a theoretical particle physicist, she addresses fundamental questions left unanswered by the Standard Model of particle physics, such as: What is dark matter? What happened to all the antimatter? And why is the weak force so much stronger than gravity? These are several of many indications that there must be new physics beyond the Standard Model. Dr. Hochberg's research focuses on the phenomenology of new particles and interactions, with emphasis on dark matter. She studies new ideas in the exploration of dark matter, developing new theories of its particle identity, along with novel experimental ideas for its detection on Earth. Her proposed ideas include the use of superconductors, carbon-based materials like diamond, 2-dimensional materials such as graphene, and Dirac materials. Dr. Hochberg has been named a Wolf Fellow, Chorafas Fellow, Rothschild Fellow, LHC Theory Initiative Fellow and Azrieli Fellow, and has won the National Woman Award and the Krill Prize.

She lives in Jerusalem with her husband Eric and their two little ones, Leor and Maya.