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Cherenkov radiation (pronunciation: /tʃɛrɛnʃkɔv/) is an electromagnetic radiation emitted when a charged particle (such as an electron) passes through a ...History. The AFM was invented by IBM scientists in 1982. The precursor to the AFM, the scanning tunneling microscope (STM), was developed by Gerd Binnig and Heinrich Rohrer in the early 1980s at IBM Research - Zurich, a development that earned them the 1986 Nobel Prize for Physics. Binnig invented the atomic force microscope and the first experimental implementation was made by Binnig, Quate ...G eant 4 is a software toolkit for the simulation of the passage of particles through matter. It is used by a large number of experiments and projects in a variety of application domains, including high energy physics, astrophysics and space science, medical physics and radiation protection. Following is a list of peer-reviewed publications that cite the libRadtran or its predecessor, uvspec. If you also used libRadtran for your work we would be glad to add a reference here.