1037-43-265    **Tomoyuki Kakehi\*** (`kakehi@math.tsukuba.ac.jp`), University of Tsukuba, Institute of Mathematics, Tsukuba, Ibaraki 305-8571, Japan. *Fundamental solution to the Schroedinger equation on a compact symmetric space.* Preliminary report.

In this talk, I will discuss some properties of the fundamental solution to the Schroedinger equation on a compact symmetric space. In particular, I will talk about its support and its singular support. One of the main results is that under some conditions the fundamental solution to the Schroedinger equation has lacuna. (Received February 04, 2008)