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Tomoyuki Kakehi* (kakehi@math.okayama-u.ac.jp), Department of Mathematics, Okayama University, Okayama, 700-8530, Japan. *Schroedinger equation on certain compact symmetric spaces.*

The support of the fundamental solution to the Schroedinger equation corresponding to a free particle on a compact symmetric space with even multiplicities becomes a lower dimensional subset at a rational time, whereas its support and singular support coincide with the whole symmetric space at an irrational time. In this talk I will provide some new insights and partial results into additional problems related to the above result. (Received September 20, 2011)