1016-43-35 **Genkai Zhang*** (`genkai@math.chalmers.se`), Dept. Math., CTH/GU, S-412 96 Gothenburg, Sweden. *Quantization and Hermite type polynomials on bounded symmetric domains.* Preliminary report.

We introduce a unitary group invariant mapping from the L-2 space on a real symmetric domain G/K onto the Bergman space of holomorphic functions on the corresponding complex symmetric domain. We compute explicit the mapping on certain K-invariants. We obtain certain Hermite-Laguerre type functions on the symmetric domains and find their spherical transform. (Received January 12, 2006)