1037-60-135 Nobuhiro Asai* (nasai@auecc.aichi-edu.ac.jp), 1 Hirosawa, Igaya-cho, Kariya, Aichi 448-8542, Japan. Recent results on one-mode interacting Fock spaces.

It will be shown that deformed annihilation, creation and conservation operators discussed in Asai's papers (2002, 2005) generate Lie algebras. Let $\tilde{\mu}$ be a probability measure on \mathbb{C} derived by one-mode interacting Fock space approach. We shall show that $\tilde{\mu}$ has a rotation invariant property. As typical examples, the Gaussian and Bessel kernel measures on \mathbb{C} are presented. It means that a one-mode interacting Fock space is realized as a Hilbert space of analytic L^2 -functions with respect to a rotation invariant measure. Other related topics will be mentioned if time is allowed. (Received February 05, 2008)