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St. John's University, Dep. of Math & CS, 300 Howard Ave., Staten Island, NY 10301. *On real
rigged Hilbert spaces and Gelfand-Naimark-Segal type theorem for projective limits of real operator
algebras.*

We introduce real rigged Hilbert spaces, study their connections with complex rigged Hilbert spaces and prove Gelfand-Naimark-Segal type theorem for representations of nuclear barreled real locally C*-algebras as subalgebras of continuous linear operators on real rigged Hilbert space. (Received February 12, 2006)