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George A. Anastassiou* (ganastss@memphis.edu), Dr. George Anastassiou, Department of Mathematical Sciences, University of Memphis, Memphis, TN 38152. *Fractional Self Adjoint Operator Poincaré and Sobolev type Inequalities.*

We present here many fractional self adjoint operator Poincaré and Sobolev type inequalities to various directions. Initially we give several fractional representation formulae in the self adjoint operator sense. Inequalities are based in the self adjoint operator order over a Hilbert space. (Received August 05, 2016)