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Peter Robert Massopust* (massopust@ma.tum.de), Centre of Mathematics, Technische Universität München, Boltzmannstr. 3, 85747 Garching, Germany. *Exponential Splines with Complex Order.*

We introduce the concept of exponential spline of complex order and show that this new class of splines generalizes in a natural way the classical polynomial and exponential splines as well as fractional and complex B-splines. Some properties of exponential splines are discussed. (Received February 11, 2013)