Local refinement for AS++ T-splines

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ABSTRACT

T-splines have emerged as an important technology for Computer aided geometric design and Iso-geometric analysis[1]. This talk will provide a new notion, Analysis-suitable++ (AS++) T-splines, which are a class of T-splines meet both the requirement of design and analysis. AS++ Tsplines include analysis-suitable T-splines[2,3] as a special case and meanwhile preserve all the basic mathematical properties as AS T-splines. We will show that for the local refinement algorithm, AS++ T-spline produce less propagations than those for algorithm in [1] and AS T-spline local refinement[3].

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