

# Max Plus Semiring and the Max Plus Finite Element Method for Solving HJB Equations

Jelena Patarčić

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## **Abstract**

In this talk I will give a short introduction to the max plus semiring, as well as give max plus analogues to some well known concepts from "standard" mathematics. I will also present the max plus Petrov-Galerkin method for solving Hamilton Jacobi Bellman equations, as proposed by M. Akian, S. Gaubert and A. Lakhoua. In conclusion, I will present some numerical results.