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Title: Fully nonlinear mean-field games

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Abstract: In this talk, we examine a mean-field games system driven by fully nonlinear elliptic operators of the form $F : S(d) \rightarrow \mathbb{R}$. By means of geometric-tangential techniques, we investigate gains of a priori regularity for the solutions in Sobolev spaces. In addition, by combining methods from the realm of Γ -convergence with improved compactness yielded by the tangential path, we study the existence of minimizers for the associated variational problem.