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*Strong pseudoconvexity and Cauchy-Riemann equations*

The aim of this talk is to discuss the importance of pseudoconvexity and its strong counterpart as complex analytic and differential geometric phenomena. Then I will present our recent contributions to further understanding strong pseudoconvexity, even in the infinite-dimensional and non-smooth contexts. The rest of the talk will focus on connections to other classical and recent results on strong pseudoconvexity and related complex analytic problems, such as solutions to Cauchy-Riemann equations.