Stable Ulrich Bundles on Fano 3-folds with Picard Number 2

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A vector bundle $\mathcal{E}$ on a projective variety X in $\mathbb{P}^n$ is Ulrich if for some linear projections X in $\mathbb{P}^{n-1}$ the direct image of $\mathcal{E}$ is trivial. It was conjectured that on any variety there exist Ulrich bundles. In this talk, we studied the construction of stable Ulrich bundles of rank 1 and 2 on Fano 3-folds which are blow-up of $\mathbb{P}^3$ along a genus 3, degree 6 curve.