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**Bhavana Deshpande\*** (bhavnadeshpande@yahoo.com). *Coupled coincidence point and coupled fixed point theorems on modified intuitionistic fuzzy metric spaces with applications.* Preliminary report.

In this talk, we discuss some coupled coincidence point and coupled fixed point theorems for nonlinear mixed monotone-generalized contractions on partially ordered modified intuitionistic fuzzy metric spaces. We also discuss coupled coincidence point and fixed point theorem for weakly compatible mappings on modified intuitionistic fuzzy metric spaces. We apply our results to study the existence and uniqueness of the solution to a nonlinear Fredholm integral equation. We provide examples to demonstrate our results. (Received July 17, 2014)