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Fluorescence Studies on Ultracold Plasmas

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Fluorescence studies of ultracold plasmas form a nice complement to recently-demonstrated ion absorption measurements. They offer some advantages in terms of both the signal-to-noise ratio, the ultimate sensitivity, and the fast time-scale of the response. In this talk I will present new fluorescence studies of ultracold plasmas and discuss their application to our understanding of the physics of strongly- coupled Coulomb systems.