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Modeling of PT-systems based on Optical Parametric Amplification and Stimulated Raman Scattering ALEXEY SUKHININ, Southern Methodist Univ, NATALIA LITCHINITSER, The State University of New York at Buffalo — Most of the research on PT-materials has been performed with the premise that the gain of the system is based on the amplitude-independent or linear amplification mechanisms. In this talk, I will discuss the theoretical model that includes nonlinear optical effects such as Optical Parametric Amplification and Stimulated Raman Scattering to realize larger optical gain. This setup could lead to a build-up of the next generation of PT-materials.

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