

## STIMULATED EMISSION BY COLLOIDAL QUANTUM DOTS

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Reducing the size of materials down to a few nanometer is a powerful approach to control material properties by design. A case in point are semiconductors, where size quantization leads to a size- and shape-dependent band gap once crystal dimensions become comparable or smaller than the exciton Bohr radius. This talk explores the opportunities size reduction brings for creating new optical gain materials and will provide a short outlook on the prospects and challenges on using colloidal quantum dots.

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CFEL  
SEMINAR ROOMS I-III

