Math.-Nat.
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Dynamic plasmonics

A prerequisite to build advanced nanophotonic architectures is the ability to precisely control the organization of different optical elements, such as metal nanoparticles, fluorophores, semiconductor nanocrystals, and others in space. To this end, DNA origami represents an ideal construction platform owing to its unique sequence specificity and structural versatility. I will present sequentially a diverse set of DNA-assembled nanophotonic systems according to their characteristic optical properties. I will also discuss about the inevitable evolution from static to dynamic devices along with the fast development of this inter-disciplinary field. Finally, possible future directions and perspectives on the challenges will be elucidated.

Prof. Dr. Laura Liu
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room P 603, Mo. 11.02.2019, 13:30

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