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**Conditional energy transfer: Towards molecular excitonic Gates.**

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In this talk, I will describe an approach that we developed to carry out conditional energy transfer. In particular, we propose a multi-chromophore ultrafast approach that based on a defined pulse sequence, allows for directing energy transfer on selected pathways. If experimentally realized, this proposal opens the doors to applications in a variety of fields, although we concentrate on biomolecular labeling as one of the most promising ones.