



Graphene and other 2D materials for spintronics applications

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Graphene and other 2D materials offer unique possibilities for spintronics applications with the ultimate goal to encode and read out spin information in single spins. In this lecture I will present general requirements for spintronic materials. I will discuss different possibilities of efficient spin injection, limitations of long distance spin transport, methods of convenient spin detection, methods of effective spin manipulation and different realizations of spin storage