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Towards optoelectronics with carbon nanotubes

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An important advancement towards optical communication on a chip would be the development of integrable, nanoscale photonic emitters with tailored optical properties. Carbon nanotubes may play an important role in this respect and I will report on our efforts to use nanotubes as electrically driven waveguide-integrated emitter. The site-selective placement of mono-chiral semiconducting nanotubes into a tailored photonic environment and a robust electrical wiring are essential ingredients to fabricate complex devices such as a fully integrated quantum photonic circuit.

