

Wireless data transfer has revolutionized the consumer market for the last decade giving products equipped with transmitters and receiver for wireless data transfer. Wireless technology has features attractive for data transfer in future tracking detectors. The removal of wires and connectors for data links is certainly beneficial both for the material budget and the reliability of the system. Other advantages is the freedom of routing signals which today is particularly complicated when bringing the data the first 50 cm outside the tracker. With wireless links intelligence can be built into a tracker by introducing communication between tracking layers within a Region Of Interest which would allow the construction of track primitives in real time. I will in the lecture introduce the principle of wireless radio, the key components for the technology and modulation techniques used for transmitting data. I will give an overview of recent trends and development of wireless technology for transfer of data with high rate. I will then discuss the use of wireless technology for data transfer in tracking detectors in HEP and for applications outside HEP where large data rates are required.