

Generation and use of extremely short EM pulses

S. Danko Bosanac

R. Bošković Institute, Bijenička c. 64, Zagreb, Croatia

Danko.bosanac@irb.hr

EM pulses of the duration of 10^{-20} s and much shorter could be relatively easily produced, with enormous field strength. The question is what one does with such pulses and is the standard relativistic quantum theory ready to model their interaction with matter? As it turns out much work need to be done in fundamental theory with the repercussions that are not easily foreseen.