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# Ultrafast Dynamical Processes Semiconductors Topics Applied

**ultrafast dynamics of many-body processes and fundamental ...** - ultrafast dynamics of many-body processes and fundamental quantum mechanical phenomena in semiconductors daniel s. chemla\* and jagdeep shah† \*department of physics, university of california, and materials sciences division, lawrence berkeley national laboratory, berkeley, ca 94720; and †bell **terahertz radiation from semiconductors** - terahertz radiation from semiconductors jieshan1 andtonyf.heinz2 1 departmentofphysics,casewesternreserveuniversity cleveland,oh44106,usa 2 ... **ultrafast magneto-optics in ferromagnetic iii-v semiconductors** - we investigate various ultrafast optical processes in ferromagnetic (iii,mn)v semiconductors induced by femtosecond laser pulses. two-colour time-resolved magneto-optical spectroscopy has been developed, which allows us to observe a rich array of dynamical phenomena. we isolate several distinct temporal regimes in spin dynamics, interpreting the fast (