

Field-Induced Superconductivity in Fullerenes

Hendrik Schn¹

¹Bell Laboratories

Lucent Technologies

Room 1E318

600 Mountain Avenue

Murray Hill, NJ 07974-0636

USA

Field-induced doping has proven to be a powerful technique to investigate materials as a function of carrier concentration. Especially, the possibility to induce superconductivity in an interface layer has received considerable attention. The results of field-effect doping of fullerenes leading to transition temperatures as high as 117 K will be summarized and discussed.