

---

# Photoemission of polymer-coated carbon nanotubes

김진영, 이형숙, 유세기, 허정나\*, 정태원\*, 이정희\*, 진용완\*, 김종민\*

한국외국어대학교 전자물리학과, \*삼성종합기술원 전자방출원 연구단

Photoemission of polymer-coated carbon nanotubes (CNTs) were observed. Single-walled CNTs were dispersed on the substrate, or CNT paste was coated on the substrate. On CNTs polymers were spin-coated and dried in the vacuum furnace. The sample was positioned on the vacuum chamber, and photoemission was measured using visible light. Photoemission current of polymer-CNTs was greatly enhanced for the case of the single component, i.e., polymer only or CNT only. The underlying mechanism for this large photoemission will be explained in the poster.