Photoemission of polymer-coated carbon nanotubes

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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.