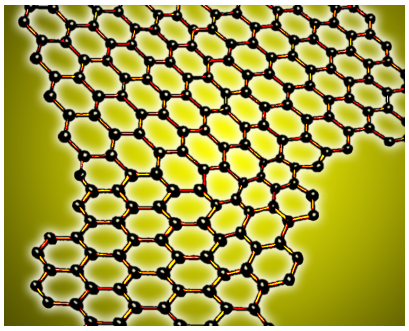

Honing in on graphene electronics with infrared synchrotron radiation

Researchers at the ALS Infrared Beamlines, the University of California at San Diego (UCSD), working with colleagues at Columbia University in New York and the National High Magnetic Field Laboratory in Florida have measured the extraordinary properties of graphene with an accuracy never before achieved. The results confirm many of the strangest features of the unusual material but also reveal significant departures from theoretical predictions. And they point the way to novel practical applications, such as tunable optical modulators for communications and other nanoscale electronics. The researchers report their findings in the June issue of the journal *Nature Physics*.

"Surprising Graphene: Precise Measurement Reveals Strange Properties." 06/08/08: LBNL Research News Article; ScienceDaily; EurekaAlert; LigthtSources.org; 06/09/08: Photonics.com; PhysOrg.com; ScientistLive; Daily India; newKerala; NewsLocale; HULIQ.com;

Ascribe
;
theCheers.org
;
Thaindian News
;
NanoWerk
;
7thSpace
; 06/10/08:
Today at Berkeley Lab
;
Innovations Report
;
Nanotechnology Now
;
Small Times
;
R&D Magazine
; 06/11/08:
Foresight Nanodot
;

"Physicists Reveal Secrets Of Newest Form Of Carbon" 06/10/08: UCSD News Release ; ScienceDaily
;
PhysOrg.com
;
Genetic Engineering & Biotechnology News
;
NanoWerk
;
Xinhua (China)
;
Science Centric
;
Eureka! Science News
; 06/11/08:
People's Daily
;
The Hindu
;
Thaindian News

;
NewsLocale
;
Daily India
;
Fresh News
;
HULIQ.com
;
theCheers.org
;
LightSources.org
;
Mathaba
; 06/12/08:
Chemie.de
;
Innovations Report
;

"Dirac Charge Dynamics in Graphene by Infrared Spectroscopy." ALS News 292, Oct 29, 2008
.