

## Supplementary Materials for **Atomic-like high-harmonic generation from two-dimensional materials**

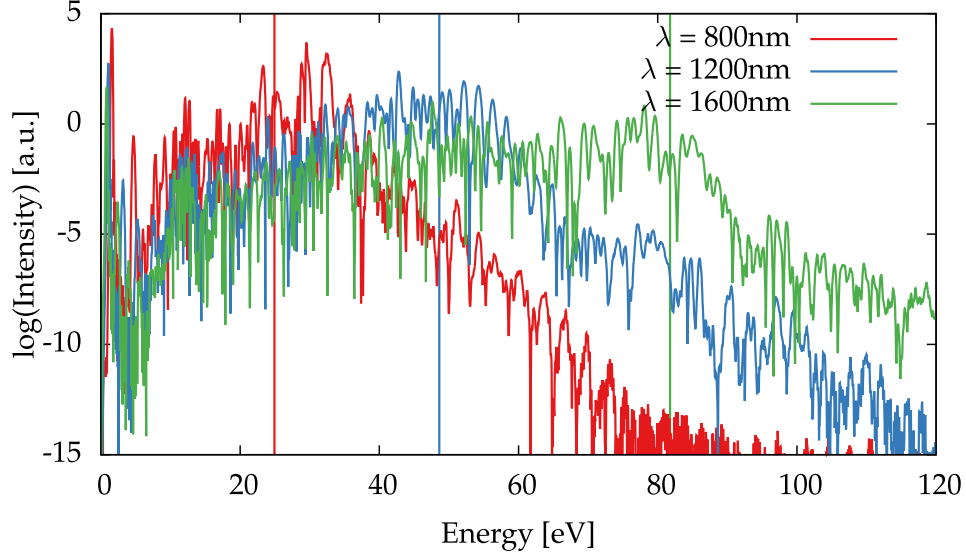
Nicolas Tancogne-Dejean and Angel Rubio

Published 16 February 2018, *Sci. Adv.* **4**, eaao5207 (2018)

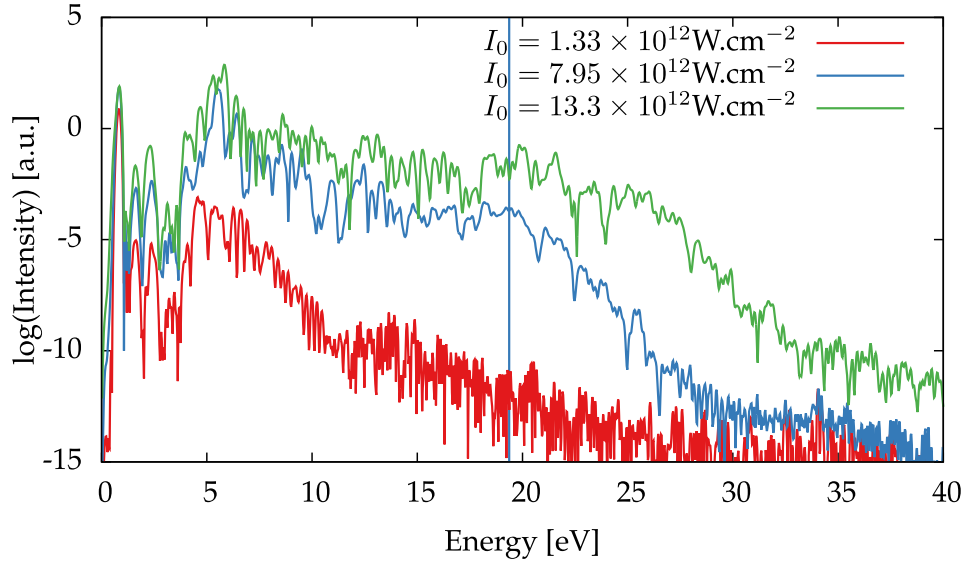
DOI: 10.1126/sciadv.aao5207

### **This PDF file includes:**

- fig. S1. HHG spectra of monolayer hBN for various wavelengths.
- fig. S2. In-plane HHG spectra of monolayer hBN.



**fig. S1. HHG spectra of monolayer hBN for various wavelengths.** HHG spectra of monolayer hBN for  $\lambda=800\text{nm}$  (red curve),  $\lambda=1200\text{nm}$  (blue curve), and  $\lambda=1600\text{nm}$  (green curve). The vertical lines indicate the corresponding energy cutoffs predicted by the three-step model.



**fig. S2. In-plane HHG spectra of monolayer hBN.** HHG spectra for in-plane polarized driving field close to its damage threshold, for respective intensities  $I_0 = 1.33 \times 10^{12}\text{W.cm}^{-2}$  (red curve),  $I_0 = 7.95 \times 10^{12}\text{W.cm}^{-2}$  (blue curve), and  $I_0 = 13.3 \times 10^{12}\text{W.cm}^{-2}$  (green curve) in matter, taking the experimental in-plane refractive index of  $n = 2.65$  [36] of bulk hBN. The energy cutoff for the laser intensity corresponding to the damage threshold is about 19 eV, corresponding to the 25th harmonic, and is indicated by the vertical line.