

BORIS repository: **On the non-bonding valence band and the electronic properties of poly(triazine imide), a graphitic carbon nitride**

The data was collected on the 30th of August 2022 by Eva Röck at the University of Bern. It is part of a collaboration with David Burmeister from the Humboldt-University Berlin, et al., who provided the two samples (i) Poly(triazine imide) intercalation free (PTI-IF) and (ii) Poly(triazine imide) with intercalated Li- and Br-ions (PTI-LiBr). Both were measured as received as pressed pellets of 1 mm and 1.5 mm thickness respectively.

The uploaded data is supplementary to the publication:
On the non-bonding valence band and the electronic properties of poly(triazine imide), a graphitic carbon nitride

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There are six datafiles uploaded in total:

1. THz_time_raw_PTIF_ER_20220830
2. THz_time_raw_PTILiBr_ER_20220830
3. THz_cond_calculated_PTIF_ER_20220830
4. THz_cond_calculated_PTILiBr_ER_20220830
5. THz_cond_fit_PTIF_ER_20220830
6. THz_cond_fit_PTILiBr_ER_20220830

The raw data consists of three columns: time, THz field amplitude in air E_{ref} and THz field amplitude through the pellet E_{trans} . The calculated data represents the THz complex conductivity in the frequency domain calculated from a fast Fourier transform (FFT). It consists of three columns: frequency, Real conductivity, Imaginary conductivity. The fitted data represents the Drude Smith Model model fits of the calculated data. It consists of three columns: the interpolation of 1000 points in between the range of the frequency, the fit of the Re conductivity, the fit of the Imaginary conductivity.

The laboratory notes related to the dataset can be found in Eva Röck's notebook number 1, page 153 to 158.

For further information or questions on this dataset please contact Eva Röck:
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