Wigner 121 Scientific Symposium

Wigner Research Centre for Physics **Institute for Particle and Nuclear Physics** Femtosecond Spectroscopy and X-ray Spectroscopy Group

G. Vankó, É. G. Bajnóczi, G. Bazsó, D. Buzsáki, J. El Guettoui, T. Keszthelyi, A. J. Mikeházi, Z. Németh, M. Pápai, M. Papp, T. Rozgonyi, A. Vancza

Introduction

Methodology



Experiments

Transient Absorption



1. Laser source	5. SHG	cuvette
2. Beamsplitters	6. White light	9. Reference
3. Linear actuator	generation	detector
with retroreflector	7. Photodiode	10. Sample detector
4. Beam splitter	8. Flow-through	11. Peristaltic pump



Selected publications of the group

(1)Rozgonyi, T. et al. Commun Chem 2023, 6 (1), 1. (2) Papp, M. et al. Inorg. Chem. 2023, 62 (16), 6397. (3) Pápai, M. J. Chem. Theory Comput. 2022, 18 (3), 1329. (4) Mikeházi, A. et al. J Synchrotron Rad 2022, 29 (5), 1216. (5) Pápai, M. Inorg. Chem. 2021, 60 (18), 13950. (6) Kunnus, K. et al. Nat Commun **2020**, 11 (1), 634. (7) March, A. M. et. al. J. Chem. Phys. 2019, 151 (14), 144306. (8) Britz, A. et al. Inorg. Chem. 2019, 58, 9341.

(9) Vankó, G. et al., J. Phys. Chem. C 2015, 119, 5888. (10) S. Kjær, K. et al. Phys. Chem. Chem. Phys. 2018, 20 4238. (11) March, A. M. et al. J. Phys. Chem. C 2017, 121, 2620. (12) Kjaer, K. et al. *Chemical Science* **2019**, *10*, 5749 (13) Katayama, T. et al., Nat Commun 2019, 10, 3606 (14) Sárosiné Szemes D., Chem. Commun. 2020, 56, 11831.





