

The 5th “Seminar on Star Formation and Astrochemistry in Toruń” (SFAT)  
organized by MA-LAB & TASQ team

November 29, 2019, Institute of Physics NCU Toruń

I) Program

11:30 - 12:00 Welcome coffee and snacks (next to room no. 20)

12:00 - 12:30 “How Car–Parrinello Quantum Dynamics Simulations May Contribute to the Origin of Life Problem?” - Wiesław Nowak

12:30 - 13:00 "How to take a photo of the forest - molecular spectroscopy with a frequency comb" - Piotr Masłowski

13:00 - 13:30 “Chemical compositions as indicators of evolution in binary systems. Results from studies of symbiotic giants” - Cezary Gałan

13:30 - 14:30 Lunch break at the Institute of Physics (Atrium COK)

14:30 - 14:45 "Systematic studies of the interaction energies of open-shell non-covalent systems with interaction-type diverse data set" - Kasia Madajczyk

14:45 - 15:05 "Multi Wavelength Dissection of an Ultra-Massive Ultra-Dusty Galaxy at  $z \approx 2$ " - Hamed Mahmoud

15:05 - 15:20 “Large dust at high redshifts: gray extinction at cosmological distances or dark energy?” - Francesco Pistis

15:20 - 15:40 "Intra-cluster GC-LMXB in the Fornax galaxy cluster” - Riccio Gabriele

15:40 End of the official part of the meeting