

ANUFRIEV LAB.

Thermal phonon engineering

Department of Informatics and Electronics



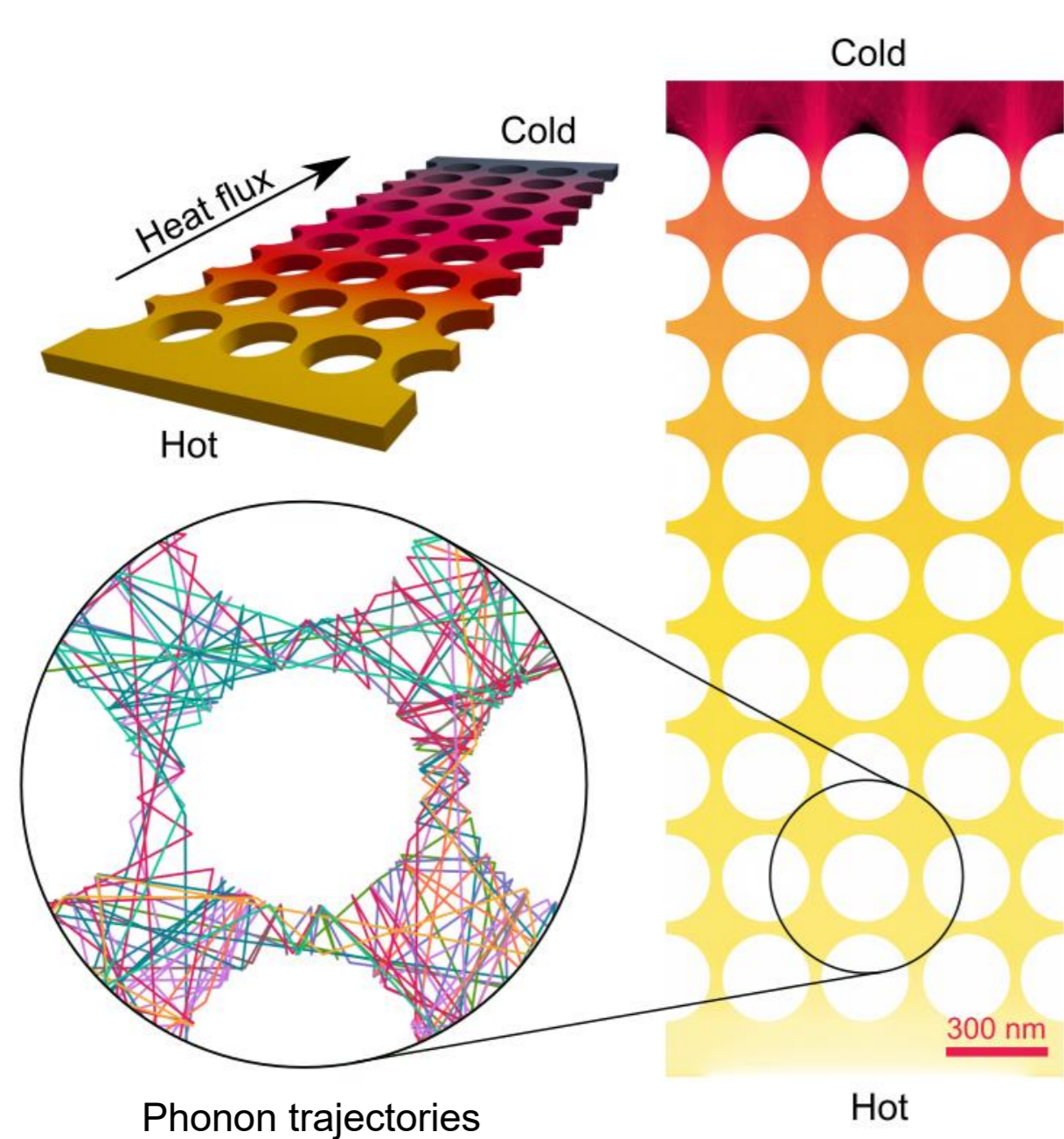
Ballistic heat transport, Nanoscale heat conduction, Phononic crystals

<https://anufrievroman.com/>

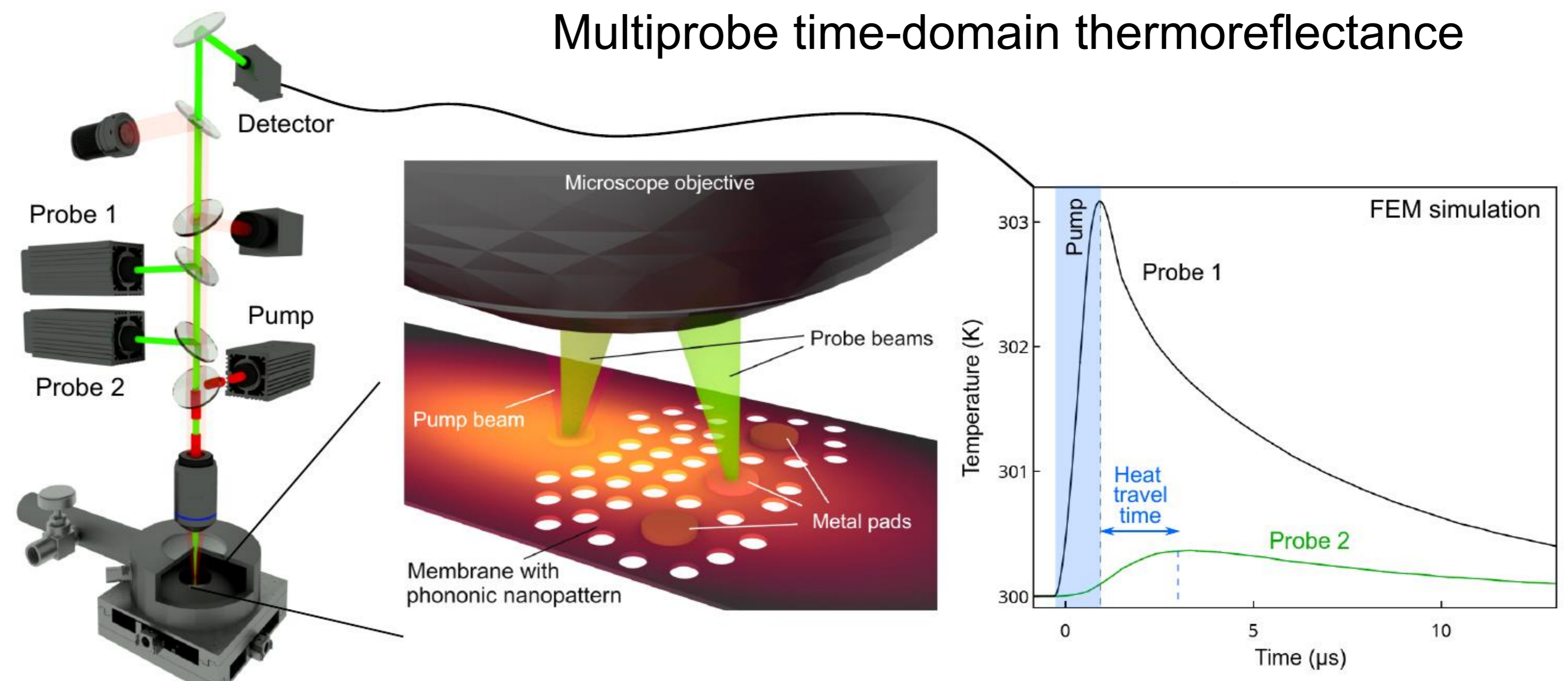
Our theoretical and experimental studies are focused on ballistic thermal transport and methods of heat flux manipulations at nanoscale for application in microelectronics, sensors, and microelectromechanical systems.

- . Time-domain thermoreflectance experiments
- . Monte Carlo simulations
- . Nanoscale thermal transport
- . Ballistic phonon transport

Monte Carlo simulations



Multiprobe time-domain thermoreflectance



Applications in microelectronics, thermoelectrics, microfluidics, bio-sensing

