

Physics & Astronomy Colloquium

Presents



Gary Collins

Professor
Washington State University

Thursday, September 15, 2022
12:10 pm, Webster Room 11

Please meet our guest speaker and share in refreshments 11:45-12:10 p.m. in the foyer on floor G above the lecture hall

“Diffusion studied using nuclear methods”

Diffusion, or atom-movement, in solids is conventionally studied by depth-profiling the concentration of a diffusing species. Alternatively, it may be studied using a method sensitive to individual jumps of the diffusing atoms. Over close to twenty years, my group has measured jump-rates of diffusing probe atoms in a variety of different crystal structures using the method of perturbed angular correlations, a nuclear hyperfine spectroscopy that is particularly favorable for measurements at high temperature. This talk will give an overview of the measurements and of results obtained.

Host: Dr. Peter Engels

ZOOM Information: Meeting ID: 965 8240 9398 • Passcode: physastro