NDSU NORTH DAKOTA STATE UNIVERSITY

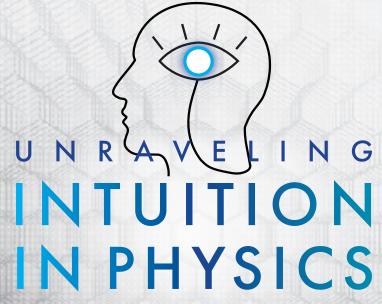
FACULTY LECTURESHIP № 64

MILA KRYJEVSKAIA

PROFESSOR,

GRADUATE PROGRAM COORDINATOR

Department of Physics



When to Trust It and When to Think Twice



April 23, 2025 3-4 p.m.

Memorial Union Anishinaabe Theatre also offered via Zoom Reception to follow

FACULTY LECTURESHIP № 64

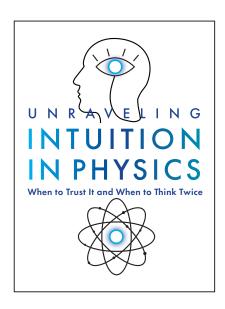
MILA KRYJEVSKAIA PROFESSOR, GRADUATE PROGRAM COORDINATOR Department of Physics



Mila Kryjevskaia is a professor of physics in the Department of Physics and the STEM Education Ph.D. program at NDSU. Her research in physics education focuses on generating broadly applicable insights into learning and teaching to inform innovations in instructional practices. She actively contributes to advancing research-based teaching at the national level and currently serves as the vice-chair of the American Physical Society's Committee on Education.

ABSTRACT

Intuition holds extraordinary power it can supercharge our thinking or undermine it entirely. In physics, intuition is no exception. Experts often view it as a trusted ally that enhances reasoning and makes problem-solving more enjoyable. For novices, the experience can be quite different. Have you ever felt certain of an answer, only to be let down by your own thinking whether in daily life, on an exam or in a lab? Insights from cognitive psychology and physics education research shed light on why this happens. They reveal the intricate reasoning pathways we follow and the cognitive hazards we all face. This talk explores how to embrace the power of intuition while learning when to question it - for better thinking in physics and beyond.



NDSU does not discriminate in its programs and activities on the basis of age, color, gender expression/identity, genetic information, marital status, national origin, participation in lawful off-campus activity, physical or mental disability, pregnancy, public assistance status, race, religion, sex, sexual orientation, spousal relationship to current employee, or veteran status, as applicable. Direct inquiries to: Vice Provost, Title IX/ADA Coordinator, Old Main 100, 701-231-7708, ndsueoaa@ndsuedu.