

TRI-INSTITUTE SUMMER SCHOOL ON ELEMENTARY PARTICLES



PI • SNOLAB • TRIUMF

TRISEP

$$\begin{aligned} \mathcal{L} = & -\frac{1}{4}F_{\mu\nu}F^{\mu\nu} \\ & + i\bar{\Psi}\not{D}\psi \\ & + D_{\mu}\Phi^{\dagger}D^{\mu}\Phi - V(\Phi) \\ & + \bar{\Psi}_L\hat{Y}\Phi\Psi_R + h.c. \end{aligned}$$

ν_e ν_{μ} ν_{τ} $\bar{\nu}_{\tau}$

www.trisep.ca

LOCATION: TRIUMF, VANCOUVER, BC

DATE: JULY 22 - AUGUST 2, 2019

TOPICS:

STANDARD MODEL
NEUTRINO PHYSICS
BEYOND THE STANDARD MODEL
DARK MATTER
COLLIDER PHYSICS
EXPERIMENTAL METHODS
STATISTICS
MACHINE LEARNING FOR PARTICLE PHYSICS
GRAVITATIONAL WAVES

SPEAKERS:

CARSTEN KRAUSS (U ALBERTA)
DJUNA CROON (TRIUMF)
GRACIELA GELMINI (UCLA)
BEATE HEINEMANN (DESY/UNI FREIBURG)
DEAN KARLEN (U VICTORIA)
JOACHIM KOPP (CERN/UNI MAINZ)
KENDALL MAHN (MICHIGAN STATE U)
BEN NACHMAN (UC BERKELEY)
ANTHONY NOBLE (QUEEN'S U/MCDONALD INSTITUTE)
FLIP TANEDO (UC RIVERSIDE)
SEAN TULIN (YORK U)

LOCAL ORGANIZERS:

WOJCIECH FEDORKO
MARK HARTZ
ALISON LISTER
DAVID MCKEEN
DAVID MORRISSEY
PATRICK DE PERIO
OLIVER STELZER-CHILTON
ISABEL TRIGGER