



Solid State Institute
המכון למצב מוצק

TECHNION
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הטכניון
מכון טכנולוגי
לישראל

SPECIAL SEMINAR

סמינר מיוחד

VEPP-2000 electron-positron collider and other accelerator activities at BINP

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Abstract

Budker Institute of Nuclear Physics (BINP) is a largest academic institute in Russia known for its research in the fields of accelerator physics, particle physics, plasma physics and synchrotron radiation generation and applications. The short review of accelerator activities at BINP will be presented with a main emphasis on the VEPP-2000 electron-positron collider. VEPP-2000 is a small storage ring with beam energy up to 1 GeV built for light hadrons production including nucleon-antinucleon pairs. It exploits the novel concept of round colliding beams that allowed achieving the world highest bunch-by-bunch luminosity ($L \sim 10^{32} \text{ cm}^{-1}\text{s}^{-2}$) and beam-beam parameter ($k_{\text{bb}} \sim 0.1$).

ההרצאה תתקיים ביום שני, ה-23.1.23 בשעה 11:30
באוڈיטוריום המכון למצב מוצק, קומת כניסה
The lecture will take place on Monday, 23.1.23, at 11:30
at the Solid State Institute Auditorium, entrance floor

Host: Associate Professor Ido Kaminer