

MAT633 — FIELD THEORY FOR MATHEMATICIANS

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PROGRAM

- (1) Classical mechanics
- (2) Smooth manifolds
- (3) Symplectic geometry
- (4) Degenerate Lagrangian systems
- (5) Symmetries
- (6) Quantum mechanics
- (7) Field theory
- (8) Hamiltonian description (Kijowski–Tulczyjew)
- (9) BRS and BFV
- (10) Graded manifolds
- (11) Functional integral and BV