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Physics via Computing

Study the concepts and notions at the centre of the ongoing endeavour to synthesize two important traditions of thought, and become intimately familiar with the ideas and methods needed to perform serious research at the cutting-edge of quantum computing, physical information and modern physics.

Outline of Syllabus.

Comte's contention: Heat conduction, Gravity

Poisson's equation, Dirchelet BVP

Data Fitting: Brahe, Kepler

Euler's method

Hashing, Lagrange interpolation, Canonical disjunction

Hamiltonian formulation

Declaration to form analogues in physics

Lagrangian mechanics

Variational calculus

Classical Field theory

LTI systems & Green's functions

Fourier analysis, Wave dynamics

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