



# The Dark Secrets of the Terascale:TASI 2011

*Tim M P Tait, Konstantin T Matchev*

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This volume is a compilation of the lectures at TASI 2011, held in Boulder, Colorado, June 2011. They cover topics in theoretical particle physics including the Standard Model and beyond, collider physics, dark matter, and cosmology, at a level intended to be accessible to students at the initial stages of their research careers.

## Contents:

- The Five Instructions (TASI 2011) (*P Ramond*)
- Higgs Boson Physics (*L Reina*)
- Perturbative QCD and NLO Monte Carlo Simulations (TASI 2011) (*J Campbell*)
- TASI 2011: CalcHEP and PYTHIA Tutorials (*K Kong*)
- TASI 2011 Lectures Notes: Two-Component Fermion Notation and Supersymmetry (*S P Martin*)
- Models of Supersymmetry Breaking (*L L Everett*)
- Four Lectures on TeV Scale Extra Dimensions (*E Pontón*)
- Introductory Lectures on Collider Physics (*T M P Tait and L-T Wang*)
- Mass and Spin Measurement Techniques (for the Large Hadron Collider): Lectures Given at TASI 2011, Boulder, Colorado (*C G Lester*)
- Early Universe Cosmology (*D J H Chung*)
- An Introduction to Dark Matter Direct Detection Searches & Techniques (*T Saab*)
- micrOMEGAs: A Package for Calculation of Dark Matter Properties in Generic Model of Particle Interaction (*G Bélanger, F Boudjema and A Pukhov*)

**Readership:** Graduate students and researchers in high energy physics, astroparticle physics and cosmology.

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