



FACULTY OF PHYSICS

UniverseNet

Staff

Zygmunt Lalak - **scientist-in-charge**

Bohdan Grządkowski

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Postdocs

Paul Hunt - **ER (joined Oct. 2007)**

Oliver Eyton-Williams

Students

Ioannis Ntalianis - **ESR (joined Oct. 2007)**

Michał Artymowski

Anna Kamińska

Łukasz Szulc



Topics

- Multi-field inflation
ZL, SP, KT, PH, MA
- Supersymmetric inflation
ZL, SP, KT, IN, AK
- Inflation in Loop Quantum
Cosmology MA, ŁS, ZL
- Supersymmetry breakdown and
transmission ZL, SP, KT, IN, OE-W
- Cosmological Moduli Problem in
gauge and gravity mediation
ZL, IN, KT
- LSS with and without Dark Energy
PH, MD
- Effective potential, conformal
Higgs sector KM, BG
- Domain Walls, UnCosmology
ZL, MD, BG

Lectures

- Introduction to Cosmology BG
1-semester course
- Particles and Gravity BG
1-semester Course
- Field Theory in Curved
Backgrounds ZL (+ IN)
1-semester course
- Selected Topics in Cosmology SP
1-semester course

Seminars

- Weekly Seminar on Particle Physics and Cosmology
ZL, SP, BG, MD

Outreach

- Particle Physics in the Quest for Structure of the Universe ZL
public talk at the Festival of Science, Warsaw, September 2008
and Symposium on Theoretical Physics, IFT UW 2007

Workshops and Conferences

- Workshops on Particle Physics and Cosmology: The Interface
Warsaw, February 2007, February 2008 ZL, SP, KM, PH, IN
- PLANCK'07 From Weak Scale to Planck Scale
Warsaw, June 2007 ZL, SP
- so far 14 relevant publications, over 30 talks

Ioannis Ntalianis - ESR

- Supersymmetry breaking and its transmission
 - Cosmological Moduli Problem
 - Polonyi problem, reheating
- 2 papers in preparation

Paul Hunt - ER

- LSS without DE
 - Nongaussianities in multi-field inflation
 - Primordial Power Spectrum
- 1 paper published, 2 papers in preparation