

The Physics of Supercritical Electromagnetic Fields

Report of Contributions

Contribution ID: 0

Type: **not specified**

Welcome

Friday, 18 July 2008 09:00 (5 minutes)

Presenter: STÖCKER, Horst (GSI, Darmstadt)

Contribution ID: 1

Type: **not specified**

Supercritical Fields: Past Lessons and Future Challenges

Friday, 18 July 2008 09:05 (25 minutes)

Presenter: GREINER, Walter (FIAS & University of Frankfurt)

Session Classification: Introduction

Contribution ID: 2

Type: **not specified**

Strong Field Atomic Physics at GSI/FAIR: Status and Outlook

Friday, 18 July 2008 09:30 (30 minutes)

Presenter: STÖHLKER, Thomas (GSI and University of Heidelberg)

Session Classification: Introduction

Contribution ID: 3

Type: **not specified**

Dynamical versus Spontaneous Positrons in $Z\alpha > 1$ Systems

Friday, 18 July 2008 10:00 (30 minutes)

Presenter: REINHARD, Joachim (University of Frankfurt)

Session Classification: Slow-Collisions

Contribution ID: 4

Type: **not specified**

Theory of Bound State QED at Strong Fields

Friday, 18 July 2008 10:30 (30 minutes)

Presenter: SHABAEV, Vladimir (State-University of St. Petersburg)

Session Classification: Slow-Collisions

Contribution ID: 5

Type: **not specified**

Quasi-Molecular Radiation in Heavy-Ion Collisions: Two-Center Description

Friday, 18 July 2008 11:30 (30 minutes)

Presenter: FRITZSCHE, Stephan (FIAS & University of Heidelberg)

Session Classification: Slow-Collisions

Contribution ID: 6

Type: **not specified**

Interference Effects in Quasi-Molecular Radiation

Friday, 18 July 2008 12:00 (30 minutes)

Presenter: SCHUCH, Reinhold (University of Stockholm)

Session Classification: Slow-Collisions

Contribution ID: 9

Type: **not specified**

Search for Long Nuclear Interaction Times in ^{238}U + ^{238}U Collisions

Friday, 18 July 2008 14:00 (30 minutes)

Presenter: HEINZ, Sophie (GSI, Darmstadt)

Session Classification: Slow-Collisions

Contribution ID: **10**

Type: **not specified**

Recombination from the Negative Continuum

Friday, 18 July 2008 14:30 (30 minutes)

Presenter: SURZHYKOV, Andrey (University of Heidelberg)

Session Classification: Slow-Collisions

Contribution ID: 11

Type: **not specified**

Strong-Field Effects for the Production of Lepton Pairs and Photons in Collisions of Relativistic Nuclei

Friday, 18 July 2008 15:00 (30 minutes)

Presenter: SERBO, Valery (Novosibirsk State University)

Session Classification: Relativistic Collisions

Contribution ID: 12

Type: **not specified**

Electron Transitions in High-Energy Heavy Ion-Atom Collisions

Friday, 18 July 2008 15:30 (30 minutes)

Presenter: VOITKIV, Alexander (MPIK Heidelberg)

Session Classification: Relativistic Collisions

Contribution ID: 13

Type: **not specified**

Laser Driven Recollision and QED Effects

Friday, 18 July 2008 16:30 (30 minutes)

Presenter: HATSAGORTSYAN, Karen Zaven (MPIK Heidelberg)

Session Classification: Intense Laser Fields

Contribution ID: 14

Type: **not specified**

Unruh Effect and Schwinger Mechanism in Strong Laser

Friday, 18 July 2008 17:00 (30 minutes)

Presenter: SCHÜTZHOLD, Ralf (University of Duisburg-Essen)

Session Classification: Intense Laser Fields