

# PRELIMINARY PROGRAMME of BGL 2017

as of August 20, 2017, 10:00

## Sunday, August 20

### *Recommended cultural programme in Gyöngyös, Fő tér, Open Air Concert Desk, August 20 St. Steven's Day*

- 17:00 **Vidróczky** Folk Dance Ensemble, folkdance programme
- 18:00 **For You** Acapella Vocal Group, concert
- 19:30 **Mystery Gang**, concert
- 21:00 **Fireworks** with music before the St. Bertalan (Main) Church

### *Section r1, 18:00 – 21:00, registration starts, Lobby of Károly Róbert Hostel, 3200 Gyöngyös, Bene út 69*

- 18:00 **Registration** opens
- 19:00 **Pizza and Wine** for registered participants

## Monday, August 21st

### *Section a1, 09:00 – 10:30*

- 09:00 **Kálmán Liptai**: Greetings by the Rector of the Eszterházy Károly University (5 min)
- 09:05 **Tamás Csörgő**: Recent results from the TOTEM experiment at LHC (25+5 min)
- 09:35 **István Szanyi**: Proton–proton scattering at the LHC (20+5 min)
- 10:00 **Olivér Surányi**: Exclusive particle production in pp and pPb collisions at CMS (25+5 min)

### *Section a2, 11:00 – 12:30*

- 11:00 **Máté Csanád**: Femtoscopy with Levy geometry in the PHENIX experiment at RHIC (25+5 min)
- 11:30 **Sándor Lökös**: Centrality dependent Levy femtoscopy in PHENIX (25+5 min)
- 12:00 **Tamás Novák**: Three particle femtoscopy, HBT correlations in PHENIX (25+5 min)

### *Section a3, 14:00 – 15:30*

- 14:00 **Victor Roy**: Effect of intense magnetic fields on reduced–MHD evolution (25+5 min)
- 14:30 **Gábor Kasza**: New rotating exact solutions of multi–component fireball hydrodynamics (25+5 min)
- 15:00 **Bálint Kurgyis**: Perturbative solutions of relativistic hydrodynamics (25+5 min)

### *Section a4, 16:00 – 17:30*

- 16:00 **Ferenc Siklér**: Femtoscopy with identified hadrons in pp, pPb, and PbPb collisions in CMS (25+5 min)
- 16:30 **Márton Nagy**: Coulomb effect in Fourier space for two–particle Bose–Einstein correlations (25+5 min)
- 17:00 **András Ster**: Model independent analysis of data with nearly Gaussian or Levy shape (25+5 min)

### *Section a5, 18:00 – 19:30, Welcome Dinner, Restaurant of Károly Róbert Campus, Eszterházy Károly University*

### *Section a6, 20:30 – 22:00, Experidance folk–musical performance – cultural programme in the city of Gyöngyös*

## Tuesday, August 22nd

### *Section b1, 09:00 – 10:30*

- 09:00 **Boris Arbuzov**: Fundamental cosmological problems in the quantum theory of gravity (25+5 min)
- 09:30 **Alexander Biryukov**: Stochastic processes in space of quantum random joint events (25+5 min)
- 10:00 **Vasyl Fedorchuk**: On classification of some nonsingular manifolds in the space  $M(1,3) \times R(u)$  (25+5 min)

### *Section b2, 11:00 – 12:20*

- 11:00 **Mátyás Vasúth**: Gravitational waves and source parameters (25+5 min)
- 11:30 **Bence Racskó**: Lightlike shockwaves in scalar–tensor theories (25+5 min)
- 12:00 **Márton Tápai**: Investigating different precessing gravitational waveforms (15+5 min)

### *Section b3, 14:00 – 15:30*

- 14:00 **László Árpád Gergely**: Precessing black hole binaries and their gravitational radiation (25+5 min)
- 14:30 **Emma Kun**: Jet characteristics of gravitational wave sources (25+5 min)
- 15:00 **Cecília Nagy**: Hamiltonian dynamics of doubly–foliable space–times (25+5 min)

### *Section b4, 16:00 – 17:30*

- 16:00 **Jo van den Brand**: From 2nd generation GW detectors towards Einstein Telescope (25+5 min)
- 16:30 **Péter Ván**: Activity of Mátra Gravitational and Geophysical Laboratory (25+5 min)
- 17:00 **László Ábel Somlai**: Long term seismic measurements in the Mátra mountain range (25+5 min)

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## Wednesday, August 23rd

### Section c1, 09:00 – 11:00

- 09:00 **László Jenkovszky**: BGL and hyperboloid architecture (25+5 min)
- 09:30 **Emil Molnár**: On maximal homogeneous 3-geometries (25+5 min)
- 10:00 **Yurii Sitenko**: Non-Euclidean geometry, nontrivial topology and quantum vacuum effects (25+5 min)

### Section c2, 11:00 – 12:30

- 10:30 **Norman Wildberger**: A completely algebraic approach to hyperbolic geom. over finite fields (25+5 min)
- 11:30 **Yuri Shtanov**: Anisotropic singularities in modified pure-connection gravity (25+5 min)
- 12:00 **Vladimir Solovev**: Geometry of bigravity (25+5 min)

### Section c3, 14:00 – 16:30 Conference excursion in the city of Gyöngyös

- 14:00 Walk to the **Mátra Cultural Center**
- 14:30 **Franciscan Monastery**, Library of Old Books
- 16:00 Conference Photo at the **Mátra Museum**

### Section c4, 16:30 – 21:00 Conference excursion in the city of Gyöngyös

- 16:30 **Special train** ride to Lajosháza
- 18:30 **Dinner** in Lajosháza, Mátra hills
- 20:30 **Special train** ride back to Gyöngyös

## Thursday, August 24th

### Section d1, 09:00 – 10:30

- 09:00 **Tamás Biró**: Entropic Distance for Nonlinear Master Equation (25+5 min)
- 09:30 **Alexandre Gavrilik**: Geometric aspects and uses of deformed models of thermostatics (25+5 min)
- 10:00 **Elena Gubina**: Uniform equivalence of two linear nonautonomous scalar differential eq (25+5 min)

### Section d2, 11:00 – 12:30

- 11:00 **Dmitry Anchishkin**: Mean-field approach in the multi-component gas of (25+5 min)
- 11:30 **Sándor Lökös**: Higher order anisotropies from hydrodynamical freeze-out models (25+5 min)
- 12:00 **Volodymyr Vovchenko**: Non-Gaussian moments of fluctuations of conserved charges (25+5 min)

### Section d3, 14:00 – 15:30

- 14:00 **Miklós Kiss**: Stellar evolution and nucleosynthesis (25+5 min)
- 14:30 **Tamás Csörgő**: New exact solutions of fireball hydrodynamics with shear and bulk viscosity (25+5 min)
- 15:00 **Máté Csanád**: Accelerating hydro for p+p, Cu+Cu, Au+Au, and Pb+Pb collisions (25+5 min)

### Section d4, 16:00 – 21:00

- 16:00 **Bus starts** to Bárdos Winery
- 16:30 **Wine tasting** in the Bárdos Winery, Farkasmály
- 18:00 **Conference Dinner** in Hotel Mátra Vital, Mátrafüred
- 21:00 **Bus arrives** back to the Károly Róbert Hostel

## Friday, August 25th

### Section e1, 09:00 – 10:30

- 09:00 **Grigory Polotovskiy**: Professor D.A. Gudkov (1918–1992) (25+5 min)
- 09:30 **Péter Gyarmati**: How came Gauss beside Bolyai–Lobachevsky (25+5 min)
- 10:00 **Tamás Csörgő**: J. Bolyai and the Semmelweis reflex (25+5 min)

### Section e2, 11:00 – 12:30

- 11:00 **György Kádár**: On the objective reduction of the wave-function: Károlyházy and Bolyai (25+5 min)
- 11:30 **Róbert Oláh-Gál**: János Bolyai's physics, in the light of his manuscripts (25+5 min)
- 12:00 **Anna Oláh**: From an unmarked tomb to UNESCO's World Heritage (25+5 min)

### Section e3, 14:00 – 16:00

- 14:00 **Piotr Homola**: CREDO: Cosmic – Ray Extremely Distributed Observatory (25+5 min)
- 14:30 **Dezső Varga**: Muography: imaging with cosmic muons (25+5 min)
- 15:00 **Erzsébet Kissné Császár**: First 10 years of the Berze Science Club (25+5 min)
- 15:30 **Márta Berkes-Sinka**: The Dobó Természettudományos Önképzőkör (25+5 min)

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## Saturday, August 26th

### *Section f1, 09:00 – 10:30 Prof. I. Lovas memorial section – open to the public*

- 09:00 **Bus departs** to Gyöngyöshalász
- 09:30 Memory of **Prof. I. Lovas** (at his grave, in cemetery of Gyöngyöshalász)

### *Section f2, 10:00 – 20:00 Excursion to Eger – extra fee*

- 10:00 **Bus departs** from Gyöngyöshalász to Eger
- 11:00 Visit to **Camera Obscura**, Lyceum of the Eszterházy University, Eger
- 12:00 Visit to the **Basilica of Eger**
- 13:00 **Bus departs** to Noszvaj
- 13:30 **Wine-tasting** lunch at the Thummerer Winery, Noszvaj
- 15:00 **Bus departs** to Eger
- 15:30 Visit to the **Castle of Eger**
- 18:00 **Bus departs** to Gyöngyös
- 19:00 **Arrival** to the Károly Róbert Hostel
- 20:00 **Wine and Pizza** party at the Lobby of the Károly Róbert Hostel