

NUMEX02 workshop

MTA ATOMKI, Debrecen, 29-30th November 2016

This workshop will take place in Debrecen, 29-30th November, 2016. The main aim is to give a precise and technical status on the developments for NUMEX02 in the framework of NEDA, DIAMANT, EXOGAM2 and future developments as well.

How to get to Debrecen

Debrecen is the second largest city of Hungary, and can be reached by several means of transportation:

Directly by plane:

Debrecen has its own international airport, but currently it serves only a few destinations. However some of them could be a possibility for travel, e.g.: Beauvais, Bergamo (WizzAir), München (Lufthansa).

By plane via Budapest + shuttle service:

You can book a shuttle service ([Agora TransF'air](#), ~60€) at least 72h before your arrival. The shuttle will pick you up at the entrance of Budapest Airport, and take you to any address. If you need help with the booking, please contact the organizers (n2ws@atomki.mta.hu).

By plane via Budapest + train:

There is no train station at Budapest Airport. You have to take the bus 200E (departing from the arrival level between Terminal 2A and 2B) to the 4th stop, "Ferihegy vasútállomás". There is a small train station, where you can buy the train tickets (ticket office: 6:00-18:00 or ticket machines 0-24) to Debrecen. Use only InterCity trains, and if you're using the ticket machines, you have to buy the supplementary IC tickets from the conductor on the train (no surcharge).

By plane via Budapest + car rental:

There are many car rental offices at Budapest Airport.

Detailed information can also be found on the [web page of Debrecen](#).

Venue

The workshop will be hosted by the [Institute for Nuclear Research \(MTA ATOMKI\)](#). The address of the entrance of the Institute is "Poroszlay út 6.", however if you mention ATOMKI, the taxi driver, or most people will know.

From the train station, the Institute can be reached by tram (Line 1, 300 HUF / 1 EUR, 20 min), taxi (maximum 3000 HUF / 10 EUR, 10-12 min), or on foot (3km, 40 min). From the airport, the only convenient solution is taking a taxi (~12€).

Accommodation

Single rooms are booked for the participants in pensions [Euro Panzió](#), [Zsuzsanna Vendégház](#) and [Korona Panzió](#) near (600m) ATOMKI, at a price of 40 EUR per night.

Please send an e-mail to n2ws@atomki.mta.hu if you wish to stay in one of these pensions. If you wish to book your accommodation on your own, please also indicate this during your registration.

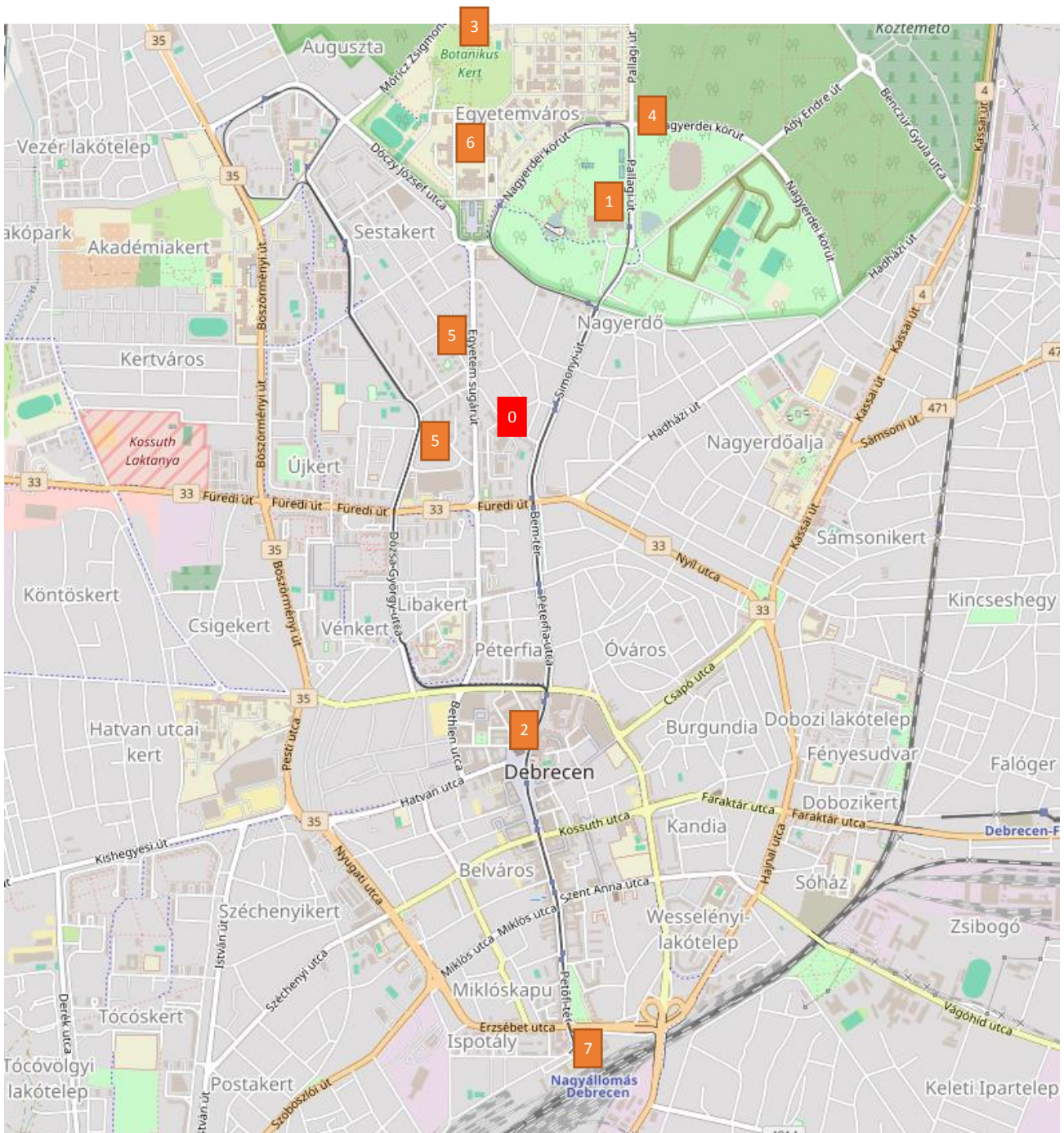
Social event

A dinner will be organized on the first evening of the workshop.

If you experience any problems during your travel or stay in Hungary, please do not hesitate to contact the organizers:
István Kuti: +36 70 324 3214 (0-24h), Barna Nyakó: +36 30 936 6242 (8-18h)

Sightseeing, surroundings

0. ATOMKI
1. [Aquaticum spa](#) - Thermal bath in the heart of Nagyerdő (Great Forest)
2. Main square - Reformed Great Church of Debrecen, Advent fair, etc...
3. Botanical Garden - Botanical garden
4. Water Tower - Pub with a nice view on the forest and northern part of the city
5. Spar, Interspar - Larger convenience stores nearby
6. University - The main building of the University of Debrecen
7. Train station



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Programme (preliminary)

November 29th – Detector systems

9:00 Brief introduction to the workshop (5') G. de France

EXOAM2

9:05 Installation of EXOGAM2 and remaining issues (30') M. Tripon

9:35 Software developments: GRU (20') L. Legeard

9:55 Results of the in-beam tests (30') S. Ertürk

10:25 Discussion (15')

10:40 Coffee break

NEDA

11:00 The NEDA detector (15') G. de France

11:15 VIRTEX6 developments and PCIe readout for NEDA (30') X. Egea-Canet

11:45 Time measurements: TDC for NEDA (30') I. Lazarus

11:15 Discussion (15')

12:30 Lunch

DIAMANT

14:00 The DIAMANT array (20') I. Kuti

14:15 Particle Identification with DIAMANT (20') B. Nyakó

14:45 Implementation of DIAMANT DSP (20') M. Varga

15:15 Results of tests (off- and in-beam) (20') K. Szitha

15:35 Discussion

15:50 Coffee break

EXOAM2

16:20 Trigger processor for EXOGAM2 (30') M. Tripon

16:50 Ethernet Gb with optical fiber (20') A. Boujrad

17:10 General discussion (30')

19:00 Social event

Programme (preliminary)

November 30th – Developments associated to NUMEXO2

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| 9:00 | Firmware devs for VAMOS, LISE and a generic electronics (30') | tba |
| 9:30 | Software developments (20') | F. Saillant |

TRACE

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| 9:50 | Data decoding and readout using NUMEXO2 (30') | R. J. Aliaga |
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PARIS

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| 10:20 | Firmware developments for PARIS (20') | A. Czermak |
| 10:40 | Coffee break | |

SIRIUS

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| 11:00 | FADC mezzanine for SIRIUS and feedback-loop; timing (30') | N. Karkour |
| 11:30 | Firmware developments for SIRIUS (30') | X. Lafay |
| 12:00 | Discussions: future possible evolutions; wishes from the community | |
| 12:30 | Lunch | |