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# AFAD-2021

16-18 March 2021  
Budker INP  
Asia/Novosibirsk timezone

- Overview
- Participants registration
- Participant List
- Abstracts submission
- Timetable
- Contribution List
- Committees, Conveners
- Registration fee

## Technical Support

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The **Asian Forum for Accelerators and Detectors (AFAD)** in 2021 will be organized by **Budker Institute of Nuclear Physics (BINP)** in Novosibirsk, Russia. AFADs are held annually under the guidance of **Asian Committee for Future Accelerators (ACFA)** to promote collaboration among universities and research institutes in Asia and Oceania.

### The major topics (working groups) of the Forum are:

- WG1: Accelerator and its related technologies for photon science
- WG2: Detector technology development
- WG3: Accelerator technologies for industrial & medical applications
- WG4: Innovative accelerator techniques
- WG5: Accelerator and its related technologies for hadron (neutron) science
- WG6: Network & computing
- WG7: Cryogenics, cryomodule and superconducting technology for accelerators



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## Abstracts submission



**The call for abstracts is open**  
You can submit an abstract for reviewing.

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## My abstracts

6 / 6 Enter #id or search strin

17. Opening  
Konstantin Lotov (Budker INP)

Technical Support

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### 28. Recent progress of laser-driven particle/photon sources in the 100-TW laser facility at National Central University

Prof. Chih-Hao Pai (Department of Phys...

Last modified: 8 Mar 2021

Accepted WG4: Innovative acceler...

Recent progresses on the development of particle and photon sources from laser-wakefield accelerators at National Central University (NCU) will be presented in this talk. At NCU, a 100-TW multi-beam laser system and a joint experimental platform have been optimized for laser plasma acceleration. The current research focuses are compact

### 30. Optimization of moderate-power laser pulse interaction with plasmas using quasistatic simulations

Petr Tuv (BINP, NSU)

Last modified: 8 Mar 2021

Accepted WG4: Innovative acceler...

Studies of plasma-based acceleration techniques rely heavily on numerical simulations. The development of computationally simple models is an important part of researches. Quasistatic approximation is the fastest one but it does not take into account the self-trapping of plasma electrons in bubble regimes. The fraction of such particles is

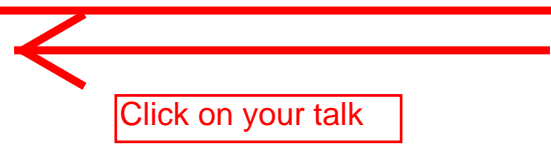
### 73. Innovative accelerator techniques in Novosibirsk

Konstantin Lotov (Budker INP)

Last modified: 12 Mar 2021

Accepted WG4: Innovative acceler...

We review the activity of four research groups:  
- theoretical group that develops a quasi-static code LCODE for simulations of plasma wakefield acceleration and makes numerical and theoretical studies of plasma based accelerators





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## Call for Abstracts

### Innovative accelerator techniques in Novosibirsk #73

Withdraw

**Accepted**

Konstantin Lotov submitted this abstract and it was finally accepted for track WG4: Innovative accelerator te...

[Go to contribution](#)



**Author:** Konstantin Lotov

We review the activity of four research groups:

- theoretical group that develops a quasi-static code LCODE for simulations of plasma wakefield acceleration and makes numerical and theoretical studies of plasma based accelerators;
- theoretical group that studies collective relaxation of electron beams and THz radiation from plasmas;
- group that develops novel W-band accelerating structures;

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### Speaker

Konstantin Lotov (Budker INP)

### Description

We review the activity of four research groups:

- theoretical group that develops a quasi-static code LCODE for simulations of plasma wakefield acceleration and makes numerical and theoretical studies of plasma based accelerators;
- theoretical group that studies collective relaxation of electron beams and THz radiation from plasmas;
- group that develops novel W-band accelerating structures;
- experimental group that prepares laser-plasma experiments with a two channel multiterawatt laser system based on OPCPA.

### Primary author

Konstantin Lotov (Budker INP)

### Presentation Materials

There are no materials yet.





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### Speaker

Konstantin Lotov (Budker INP)

### Description

We review the activity of four research groups:  
- theoretical group that develops a quasi-static code LCODE for simulations of plasma wakefield acceleration and makes

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