

XXII INTERNATIONAL SEMINAR  
ON HIGH-ENERGY PHYSICS

# QUARKS-2022

JUNE 2022

ONLINE  
WORKSHOPS

## 2nd week of June 2022:

### Charm of beauty at $e^+e^-$ colliders

Conveners:

**Sergey Barsuk** (IJCLab Orsay),  
**Pavel Pakhlov** (Lebedev Inst.),  
**Vitaly Vorobyev** (Budker Inst. & Novosibirsk U.)

### Multiloop calculations: methods and results

Conveners:

**Konstantin Chetyrkin** (KIT & Regensburg U.),  
**V.A. Smirnov** (SINP MSU)

## 3rd week of June 2022:

### Recent developments in gauge theory — string theory duality

Conveners:

**Dmitry Ponomarev** (ITMP MSU & Lebedev Inst.),  
**Arkady Tseytlin** (Imperial Coll. & ITMP MSU)

### Physics of the Early Universe

Conveners:

**Mikhail Shaposhnikov** (EPFL),  
**Andrey Shkerin** (Minnesota U.),  
**Inar Timiryasov** (Copenhagen U.),  
**Sebastian Zell** (EPFL)

### Astroparticle Physics

Conveners:

**Grigory Rubtsov** (INR RAS),  
**Dmitry Semikoz** (APC),  
**Sergey Troitsky** (INR RAS)

## 4th week of June 2022:

### High-energy physics meets condensed matter

Conveners:

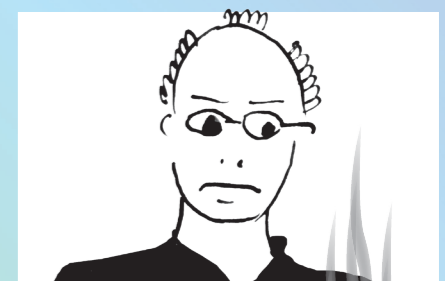
**Max Metlitski** (MIT),  
**Dam T. Son** (Chicago U.)

### Light neutrinos

Conveners:

**Mikhail Danilov** (Lebedev Inst.),  
**Dmitry Gorbunov** (INR RAS)

Workshop speakers will be invited by  
the conveners.



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To attend:

