

## Institute of Physics

Chair of Nuclear Physics

Lecturer on an hourly basis

## Publications

### Article

#### **New graph-neural-network flavor tagger for Belle II and measurement of $\sin 2\phi_1$ in $B^0 \rightarrow J/\psi K_{S0}$ decays**

Gevorg Karyan, et al. (Belle II Collaboration) 415

Physical Review D 2024 012001

### Article

#### **Search for Rare $b \rightarrow d\ell^+ \ell^-$ Transitions at Belle**

Gevorg Karyan, et al. 394

Physical Review Letters 2024 101804

### Article

#### **Search for the decay $B^0 \rightarrow \gamma\gamma$ using Belle and Belle II data**

Karyan G., et al. 408

Physical Review D 2024 L031106

### Article

#### **Measurement of the branching fractions of $B^- \rightarrow D^{(*)}K - K_S \pi^0$ and $B^- \rightarrow D^{(*)}D_s^-$ decays at Belle II**

Karyan G., et al. 406

Journal of High Energy Physics 2024 206

### Article

#### **First Measurement of $R(X\tau/\ell)$ as an Inclusive Test of the $b \rightarrow c\tau\nu$ Anomaly**

Karyan G., et al. 392

Physical Review Letters 2024 211804

### Article

#### **Tests of Light-Lepton Universality in Angular Asymmetries of $B^0 \rightarrow D^- l^- \nu_l$ Decays**

G. Karyan, I. Adachi, K. Adamczyk, L. Aggarwal, H. Aihara, N. Akopov, A. Aloisio, N. Anh Ky, D. M. Asner, H. Atmacan et al. (Belle II Collaboration)

Physical Review Letters 2023 181801

### Article

#### **Slow control of the Belle II Aerogel Ring Imaging detector**

G. Karyan, et al. 43

Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment  
2023 168569

### Article

#### **Precise Measurement of the $D^+ + s$ Lifetime at Belle II**

G. Karyan, I. Adachi, L. Aggarwal, H. Aihara, N. Akopov, A. Aloisio, N. Anh Ky, D. M. Asner, H. Atmacan,

T. Aushev et al. (Belle II Collaboration)

Physical Review Letters 2023 171803

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*Article*

**Search for a  $\tau + \tau -$  Resonance in  $e + e^- \rightarrow \mu + \mu - \tau + \tau -$  Events with the Belle II Experiment**

G. Karyan, I. Adachi, K. Adamczyk, L. Aggarwal, H. Ahmed, H. Aihara, N. Akopov, A. Aloisio, N. Anh Ky,

D. M. Asner et al. (Belle II Collaboration)

Physical Review Letters 2023 121802

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*Article*

**Test of Light-Lepton Universality in the Rates of Inclusive Semileptonic B-Meson Decays at Belle II**

G. Karyan, L. Aggarwal, H. Ahmed, H. Aihara, N. Akopov, A. Aloisio, N. Anh Ky, D. M. Asner, H. Atmacan,

T. Aushev et al. (Belle II Collaboration)

Physical Review Letters 2023 051804

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*Article*

**Measurement of the  $\tau$ -lepton mass with the Belle II experiment**

G. Karyan, I. Adachi, K. Adamczyk, L. Aggarwal, H. Ahmed, H. Aihara, N. Akopov, A. Aloisio, N. Anh Ky,

D. M. Asner et al. (Belle II Collaboration)

Physical Review D 2023 032006

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