

## Publications

*Article*

**New graph-neural-network flavor tagger for Belle II and measurement of  $\sin 2\phi_1$  in  $B^0 \rightarrow J/\psi K^0$  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  $B^- \rightarrow D^{(*)}K^-K_S^0$  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  $B^0 \rightarrow D - \ell\nu$  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. Aushe et al. (Belle II Collaboration)  
Physical Review Letters 2023 171803

---

*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

---

*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

---

*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

---