Yongseok Oh 吳勇錫
- A good friend to remember

Wen-Chen Chang

2024/1/29

Yongseok's IoP visit: March-June, 2000

Subject **program**

From Yongseok Oh

To changwc@phys.sinica.edu.tw

Reply-To ohys@phys.sinica.edu.tw

Date 2000-03-28 18:16

📎 vm.tar.gz (~20 KB) ▾

```
---------------------------------------------------------
                                    28, March, 2000
---------------------------------------------------------
Dear Wen-Chen,

Here I'm sending you the program for VM photoproduction. It includes 5
files as follows.

vmg.f   (t-dependence, e.g., diff. cross section and polarization obs.)
vmg.dat (input file for vmg.f)
vmgcs.f (total cross section)
vmgcs.dat (input file for vmgcs.f)
readme.input (explanation on the input files)

Please think about how we can improve it for your purpose.

Best Regards,


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 Yongseok OH
 Institute of Physics, Academia Sinica
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NCU workshop on EIC physics and detectors

3

Home > The European Physical Journal A > Article

Models of J/Ψ photo-production reactions on the nucleon

Review | Published: 20 December 2022
Volume 58, article number 252, (2022)   Cite this article

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T.-S. H. Lee ✉, S. Sakinah & Yongseok Oh

⟨⟩ 190 Accesses   ⟨⟩ 2 Citations   ⊕ 1 Altmetric   Explore all metrics →

J/ψ Photoproduction off Nucleons

T.-S. H. Lee, S. Sakinah, Y. Oh, arXiv:2210.02154, to be published in Eur. Phys. J. A
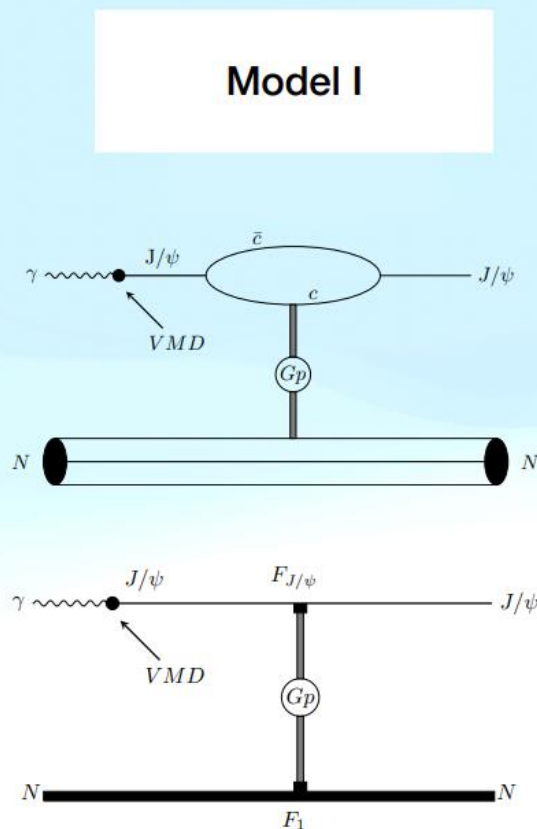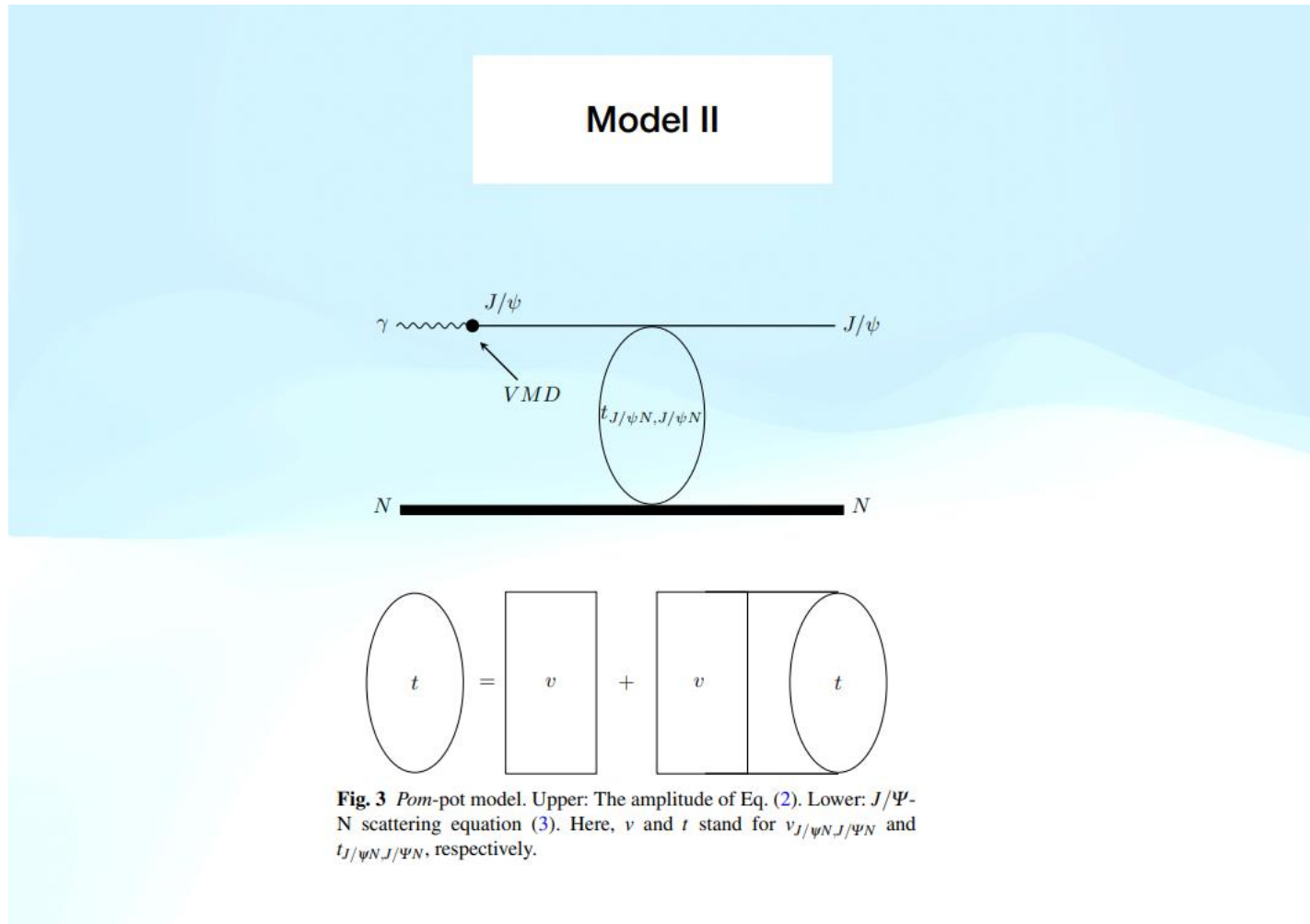
4

21

Pomeron-exchange

Model I

Fig. 2 Pomeron-exchange model of Donnachie and Landshoff (*Pom−DL*). Upper: Pomeron-exchange between quarks in J/Ψ and nucleon, Lower: Pomeron-exchange amplitude Eq. (1) resulted from assuming the Pomeron-photon analogy and using the factorization approximation.
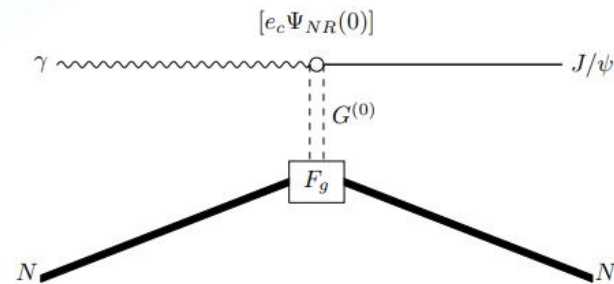
Pomeron-potential

Model II

Fig. 3 *Pom*-pot model. Upper: The amplitude of Eq. (2). Lower: J/Ψ-N scattering equation (3). Here, v and t stand for $v_{J/\psi N, J/\psi N}$ and $t_{J/\psi N, J/\psi N}$, respectively.
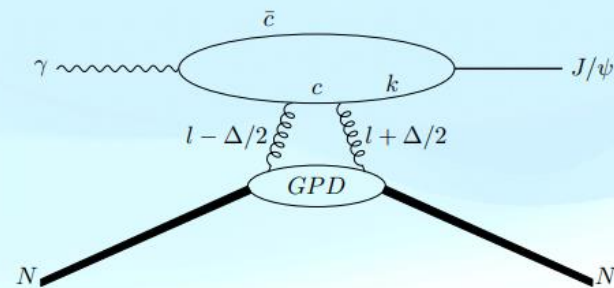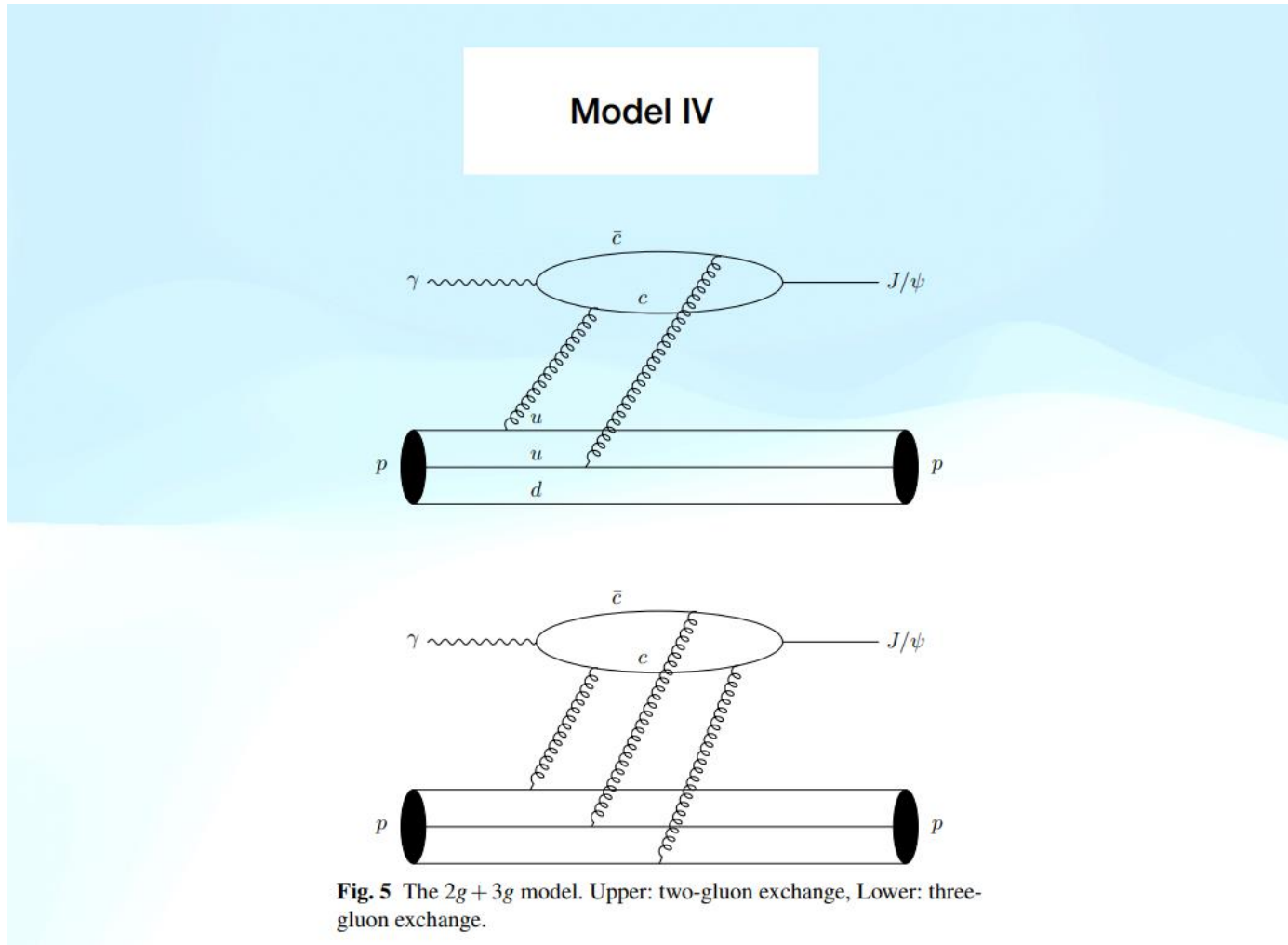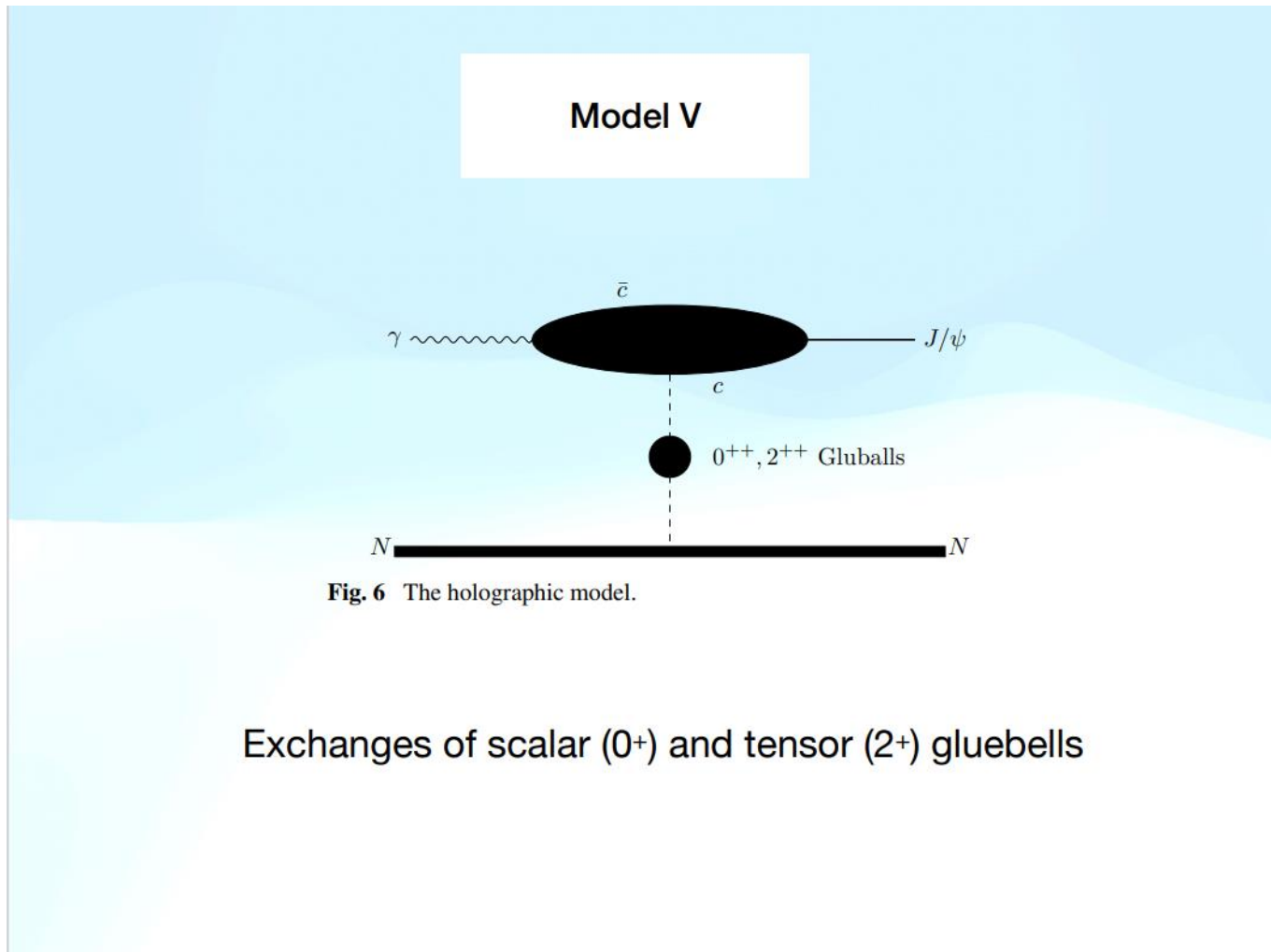
GPD-based

Model III

Fig. 4 *GPD*-based model. Upper: One of the four two-gluon exchange diagrams of Eq. (5), Lower: The amplitude of Eq. (6).

Holographic model

Fig. 5 The $2g + 3g$ model. Upper: two-gluon exchange, Lower: three-gluon exchange.

Scalar and Tensor Glueballs Exchange

Fig. 6 The holographic model.

Exchanges of scalar (0+) and tensor (2+) gluebells
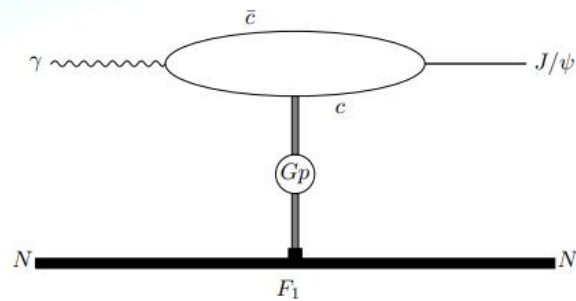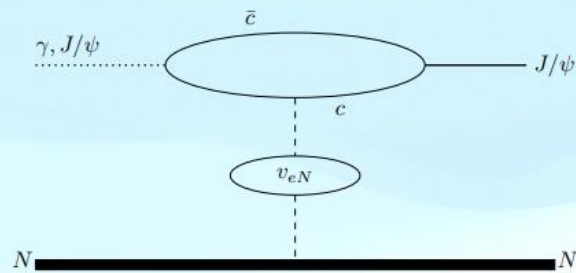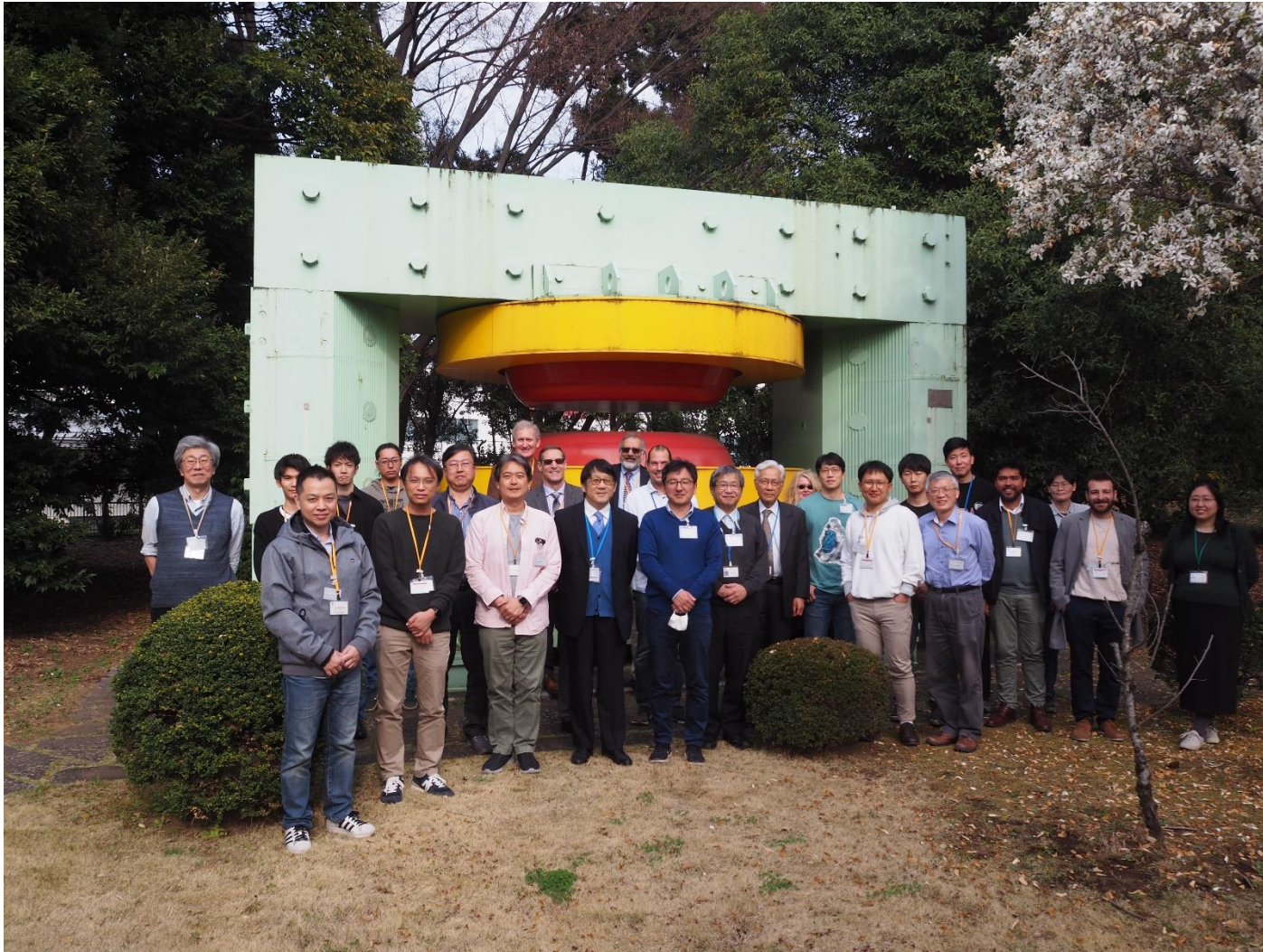
ccbar-loop

Model VI

Fig. 7 Models with $c\bar{c}$-loop mechanisms. Upper: calculated from quark-nucleon potential (v_{cN}), Lower: calculated from Pomeron-exchange mechanism.

EIC Asia Workshop

📅 16 Mar 2023, 07:00 → 18 Mar 2023, 13:30 Asia/Tokyo

📍 Okochi-hall (Bldg C32) (RIKEN)

👤 Ralf Seidl (RIKEN) , Taku Gunji (Center for Nuclear Study, the University of Tokyo) , Yuji Goto (RIKEN)

Electron-Ion Collider Resource Review Board (RRB) Meeting

📅 Apr 3, 2023, 8:00 AM → Apr 4, 2023, 5:00 PM US/Eastern