



# International Conference on the Physics of the Two Infinities

## lundi 27 mars 2023

### Session: Welcome (09:30 - 09:50)

time	[id] title	presenter
09:30	[158] Welcome address	KAJITA, Takaaki
09:40	[157] Opening statements	TSUYOSHI NAKAYA, Michel Gonin,

### Session: I (09:50 - 11:05)

-Présidents de session: Mamoru DOI (University of Tokyo)

time	[id] title	presenter
09:50	[106] Exploring "dark" side of galaxy formation in the early Universe	KOHNO, Kotaro
10:15	[133] Simons Array and Simons Observatory; probing cosmic inflation and particle physics from Chile	HASEGAWA, Masaya
10:40	[100] Interplay between Cosmology and Neutrinos Physics	GERBINO, Martina

### Session: I (11:25 - 12:40)

-Présidents de session: Mamoru DOI (University of Tokyo)

time	[id] title	presenter
11:25	[93] Prime Focus Spectrograph - A Subaru's next-generation facility instrument under commissioning	TAMURA, Naoyuki
11:50	[108] Physics and status of the Hyper-Kamiokande experiment	QUILAIN, Benjamin
12:15	[134] Sterile Neutrino searches	DEL AMO SANCHEZ, Pablo

### Session: II (15:00 - 16:15)

-Présidents de session: Armand FIASSON (LAPP - IN2P3)

time	[id] title	presenter
15:00	[107] What can we learn from gravitational waves ?	TANAKA, Takahiro
15:25	[116] The Einstein Telescope project	VERDIER, Patrice
15:50	[85] Status of squeezing and quantum enhancement for gravitational wave detection at NAOJ	PAGE, Michael

### Session: II (16:35 - 18:40)

-Présidents de session: Armand FIASSON (LAPP - IN2P3)

time	[id] title	presenter
16:35	[131] Review on the Interplay between Particle Physics Results and Cosmology	SALERNO, Roberto
17:00	[149] Flavor Physics and the Belle II Experiment	NISHIDA, Shohei

17:25	[110] Observations at the tera-electronvolt of the extragalactic sky: a selection of important results	SANCHEZ, David
17:50	[88] Highlights of Galactic observations with the MAGIC telescopes	HADASCH, Daniela
18:15	[122] Recent Results of Fermi	MIZUNO, Tsunefumi

**mardi 28 mars 2023****Session: III (09:00 - 10:40)****-Présidents de session: Tsuyoshi NAKAYA (University of Kyoto)**

time	[id] title	presenter
09:00	[113] Machine learning for gravitational wave inference	GAIR, Jonathan
09:25	[139] LIGO-Virgo-KAGRA Observational Results and Outlook	CANNON, Kipp
09:50	[141] GroundBIRD -- CMB polarization observation with continuously high-speed rotation	HONDA, Shunsuke
10:15	[135] The Quest for Cosmic Dawn: latest Results from J. Webb Space Telescope	LAPORTE, Nicolas

**Session: III (11:00 - 12:40)****-Présidents de session: Tsuyoshi NAKAYA (University of Kyoto)**

time	[id] title	presenter
11:00	[119] Machine Learning for cosmology: expectations with galaxy surveys	BOUCAUD, Alexandre
11:25	[105] Exploring the primordial Universe with QUBIC	HAMILTON, Jean-Christophe
11:50	[98] Latest results and perspectives for Super-Kamiokande	MUELLER, Thomas
12:15	[111] JUNO physics prospects	ATHAYDE MARCONDES DE ANDRE, Joao Pedro

**Session: IV (14:40 - 16:20)****-Présidents de session: Marcos DRACOS (IPHC-IN2P3)**

time	[id] title	presenter
14:40	[109] Straight to the Future - Physics Program and Status of the International Linear Collider	LIST, Jenny
15:05	[114] Instrumentation Technology Development at KEK	HANAGAKI, Kazunori
15:30	[138] Recent Results from the IceCube Neutrino Observatory	LAZAR, Jeffrey
15:55	[140] SuperChooz Exploration: Reactor & Solar Neutrino Physics	CABRERA, Anatael

**Session: IV (16:40 - 18:45)****-Présidents de session: Marcos DRACOS (IPHC-IN2P3)**

time	[id] title	presenter
16:40	[112] Cosmology with Subaru HSC/PFS	TAKADA, Masahiro
17:05	[130] Imaging dark energy at Subaru and Rubin.	ASTIER, Pierre
17:30	[148] Status and Perspectives of Direct Dark Matter Searches	SCOTTO LAVINA, Luca
17:55	[99] A whirlwind tour of the Milky Way in gamma rays	TIBALDO, Luigi
18:20	[115] Binary Neutron Stars: from macroscopic collisions to microphysics	REZZOLLA, Luciano

**mercredi 29 mars 2023****Session: V (14:30 - 16:10)****-Présidents de session: Christophe BRONNER (University of Tokyo)**

time	[id] title	presenter
14:30	[152] Recent results and future prospects from the T2K experiment	KIKAWA, Tatsuya
14:55	[128] Detection of Supernova Neutrinos with KM3NeT	EL HEDRI, Sonia
15:20	[145] Status of the CTA Project	TESHIMA, Masahiro
15:45	[23] The latest results of the CALorimetric Electron Telescope (CALET) on the International Space Station	TORII, Shoji

**Session: V (16:30 - 18:35)****-Présidents de session: Christophe BRONNER (University of Tokyo)**

time	[id] title	presenter
16:30	[117] GRAINE project: Cosmic gamma-ray observation by balloon-borne emulsion telescope	AOKI, Shigeki
16:55	[132] SMILE project: balloon experiments for observations of cosmic MeV gamma-rays	TAKADA, Atsushi
17:20	[120] KamLAND-Zen Experiment	SHIMIZU, Itaru
17:45	[60] Precise measurement of Neutrino Interactions at J-PARC in the NINJA experiment	FUKUDA, Tsutomu
18:10	[146] Overview of ANTARES, the first Submarine Neutrino Telescope	CIRCELLA, Marco

# jeudi 30 mars 2023

## Session: VI (08:55 - 10:35)

-Présidents de session: Toshinori MORI (University of Tokyo)

time	[id] title	presenter
08:55	[104] Particle physics with muons	UCHIYAMA, Yusuke
09:20	[126] Machine learning in High Energy Physics	GOLLING, Tobias
09:45	[123] SND@LHC : Scattering and Neutrino Detector at the LHC	LEE, Kang Young
10:10	[150] Highlights of BSM searches in ATLAS and CMS (including EFT interpretations and Dark Matter results)	LINDON, Jack

## Session: VI (11:00 - 12:40)

-Présidents de session: Toshinori MORI (University of Tokyo)

time	[id] title	presenter
11:00	[91] Multi-messenger observations of the high-energy transient sky	SCHUSSLER, Fabian
11:25	[121] The LiteBIRD space mission	LELOUP, Clément
11:50	[118] Current status and future physics potential of the DUNE experiment	BRUNETTI, Maria Brigida
12:15	[161] KAGRA: Large Cryogenic Gravitational Wave Antenna	ANDO, Masaki

## Session: VII (14:00 - 16:30)

-Présidents de session: Patrice VERDIER (IP2I - IN2P3)

time	[id] title	presenter
14:00	[142] Gamma-ray bursts in the multi-messenger era	DAIGNE, Frédéric
14:25	[83] Cosmological constraints on neutrinos and other light relics	LATTANZI, Massimiliano
14:50	[124] What are the key open questions in particle physics ?	PESKIN, Michael
15:15	[103] Advanced Virgo+ Status and Perspectives	GARUFI, Fabio
15:40	[137] Status on H0	RIGAULT, Mickael
16:05	[92] Concluding Remarks	SPIRO, Michel