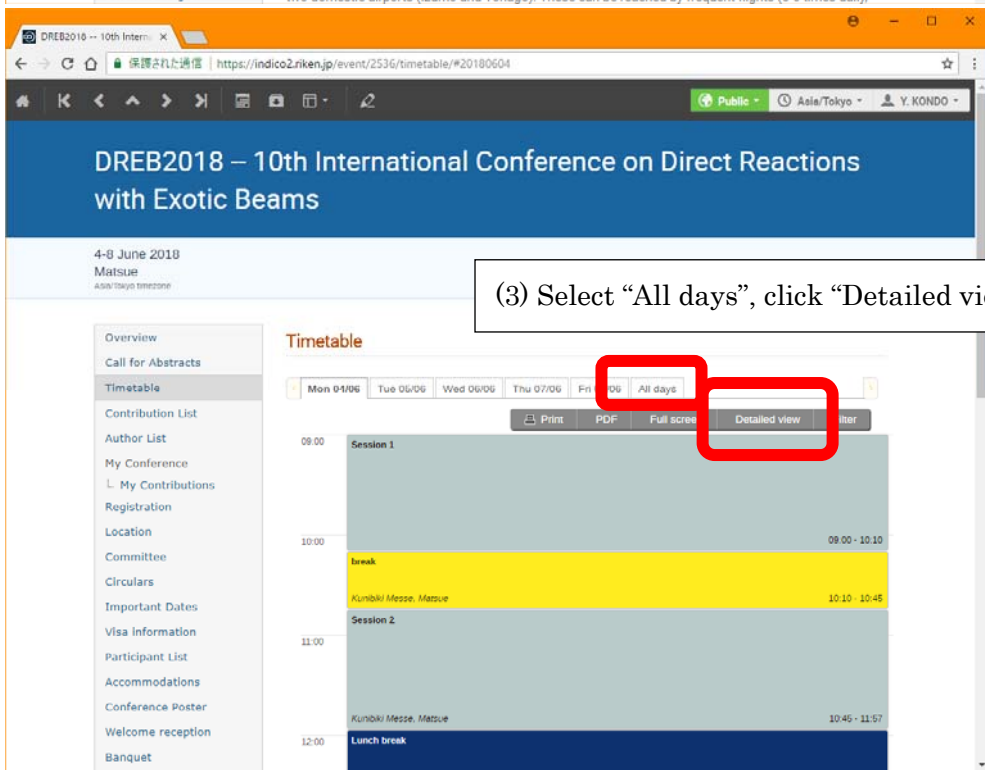


(1) Login from top-right of the DREB2018 web page.

(2) Go to "Timetable".



(3) Select "All days", click "Detailed view"

https://indico2.riken.jp/event/2536/timetable/#all.detailed

(5) Click here

Study of the unbound nuclei 27O and 28O using proton removal reactions [View contribution details](#)

Thu 7/6

09:00

Exploring the most neutron-rich isotopes of carbon and nitrogen
Kunibiki Messe, Matsue

Study of spin-isospin responses of light nuclei near and along the drip lines
Kunibiki Messe, Matsue

Study of ¹⁹C using single-neutron knockout
Kunibiki Messe, Matsue

10:00

Pairing collectivity in the ground state of Borromean nuclei and
Kunibiki Messe, Matsue

Study of the unbound nuclei 27O and 28O using proton removal reactions
Kunibiki Messe, Matsue

break
Kunibiki Messe, Matsue

11:00

Status report of Beijing Radioactive Ion-beam
Kunibiki Messe, Matsue

Study of spectroscopic factors at N=29 using isobaric analog resonances in inverse kinematics
Kunibiki Messe, Matsue

Production of neutron-rich nuclei via two-proton knockout reaction with deuterium target
Kunibiki Messe, Matsue

12:00

Study of Charge-Exchange Reactions for constraining Stellar Electron-Capture Rates
Kunibiki Messe, Matsue

Measurement of sⁿ(^{77,79}Se(d,p)) reactions in inverse kinematics at OEDO
Kunibiki Messe, Matsue

Lunch

https://indico2.riken.jp/event/2536/contributions/11006/

https://indico2.riken.jp/event/2536/contributions/11006/

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ml-dreb2010-contact@rc...

Study of the unbound nuclei 27O and 28O using proton removal reactions

7 Jun 2018, 10:12
18m
Kunibiki Messe (Matsue)

Oral contribution Session 11

Speaker
Dr. Yosuke KONDO (Tokyo Institute of Te...)

Description
The sudden change of the neutron drip line from 24O (N=16) to 31F (N=22), called oxygen anomaly, is one of the exotic phenomena. Recent theoretical studies suggest importance of three nucleon forces on the binding energies of the oxygen isotopes, especially for N=16, while available experimental data are limited because the measurement requires production of extremely neutron rich nuclei.
The region of the oxygen anomaly is also interesting in terms of the shell evolution. It is well known that the shell closure of the N=20 nuclei disappears in the island of inversion. Recent in-beam gamma-ray spectroscopy suggests that the N=20 shell gap is quenched at 29F. The experimental study of 28O is strongly desired to clarify the shell evolution along N=20 isotonic chain down to Z=8.
The SAMURAI21 collaboration studied 27O and 28O with SAMURAI spectrometer at RIKEN RIBF. These unbound nuclei are produced by two- and one-proton removal reaction on a liquid hydrogen target from 29Ne and 29F, respectively. Decay products, 24O and neutrons, are detected in coincidence to reconstruct the invariant mass of the 27O and 28O. The experimental results will be discussed in the presentation.

Primary author
Dr. Yosuke KONDO (Tokyo Institute of Te...)

Presentation Materials

There are no materials yet.

(6) Click here

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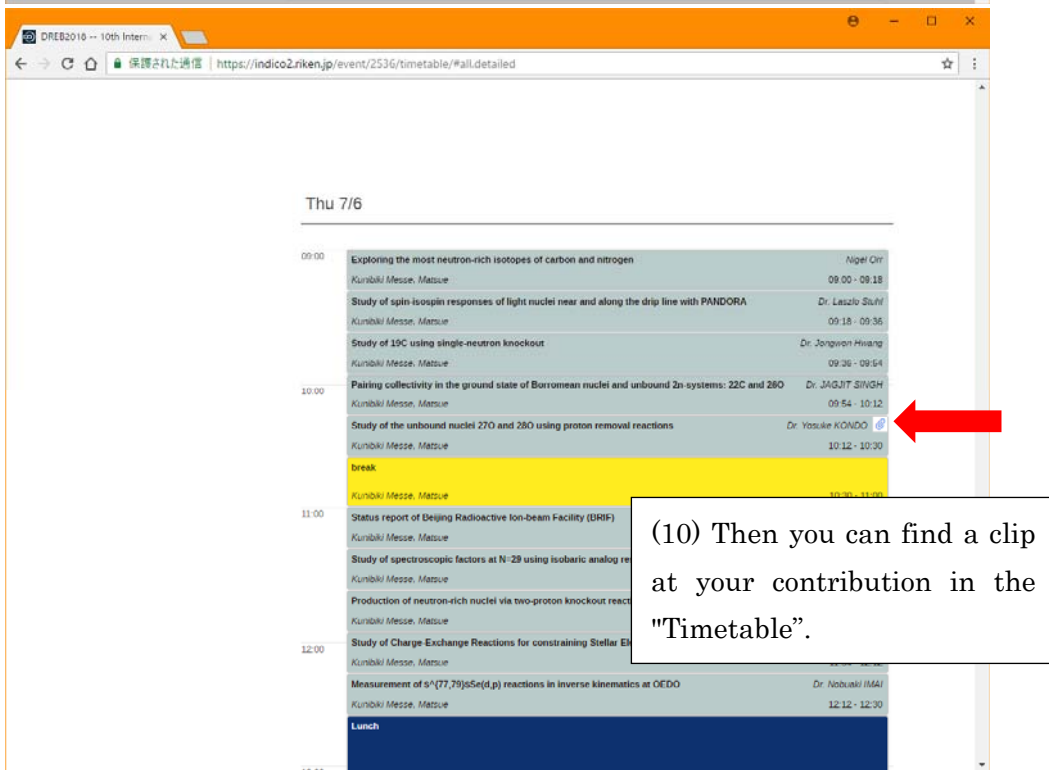
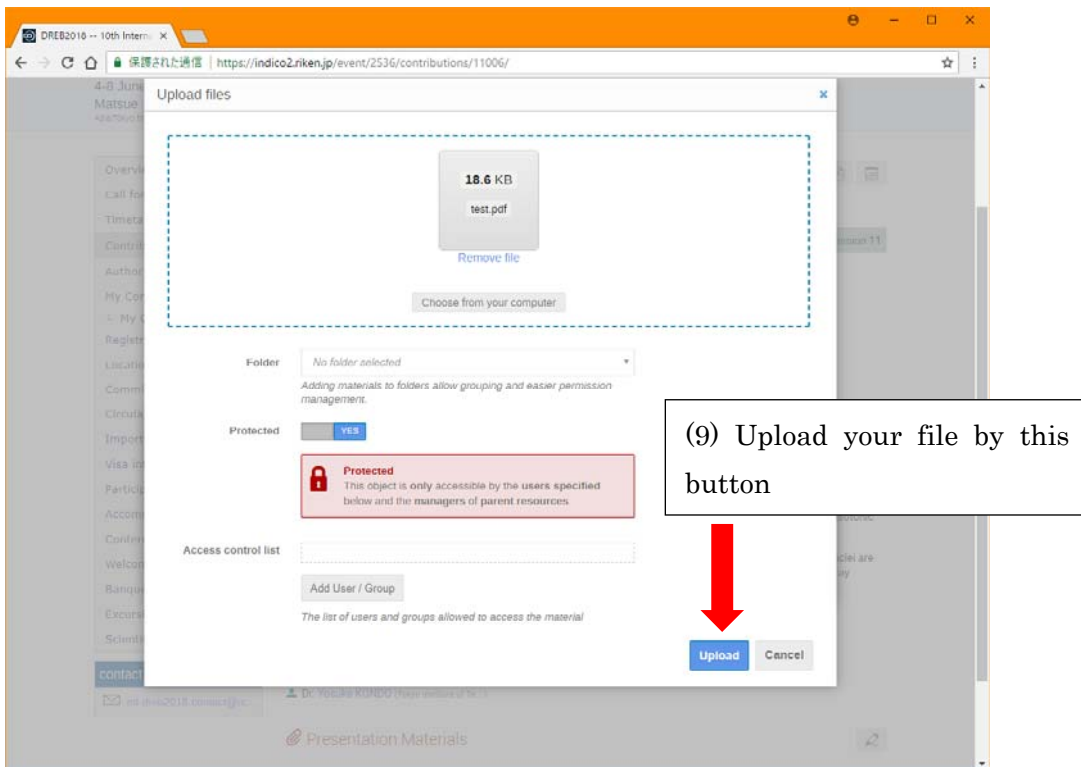
The screenshot shows a web browser window displaying the Indico2 portal. The main page is titled "Study of the unbound nuclei 270 and 280 using proton removal reactions" and includes details such as the date (7 Jun 2018, 10:12), location (Kunibiki Messe (Matsue)), and speaker (Dr. Yosuke KONDO). A "Manage material" dialog box is overlaid on the page, containing the text "Add materials to the contribution. You can attach files or links using the buttons on the right." and buttons for "Upload files" and "Add link". A red arrow points from a text box to the "Upload files" button.

(7) Click here

The screenshot shows the "Upload files" dialog box. It features a dashed box around the "Drag file here" area with a red arrow pointing to it from a text box. Below this, the "Protected" checkbox is highlighted with a red arrow and another text box. The "Public" option is selected, and a green box explains that the object is publicly accessible. At the bottom, there are "Upload" and "Cancel" buttons.

(7) Select presentation file from your computer

(8) Change "Protected" to "YES" if you don't prefer public access



You can replace the file and can modify the setup after uploading.