

Date: 6th December 2016 10:00-17:40

Venue: KICK (Keihanna Open Innovation Center)

Organizer: Takashi Yamada, Yuki Sakai and Toshinori Chiba (ATR)

Host: ATR Brain Information Communication Research Laboratory Group

Keihanna Research-Complex project

9:30~ Registration

xxxx: Speaker

10:00~ 10:05 **Opening Remarks** Keihanna Research-Complex project

Session 1 Chair: Yuki Sakai^{2,9}

10:05~ 10:35 **PTSD Hyperalignment**

Hakwan Lau^{1,2}, Vincent Taschereau-Dumouchel^{1,2}, Aurelio Cortese^{1,2,3}

10:35~ 11:05 **Qualia by multiple decoders**

Jeffrey David Knotts^{1,2}, Aurelio Cortese, Hakwan Lau

11:05~ 11:20

- - - Break - - -

Session 2 Chair: Toshinori Chiba^{2,7}

11:20~ 11:50 **Color qualia**

Jessie Taylor², Kaoru Amano^{2,3}, Hakwan Lau, Takeo Watanabe^{2,4}, Yuka Sasaki^{2,4}, Kazuhisa Shibata^{2,5}, Mitsuo Kawato^{2,3}

11:50~ 12:05 **Counter conditioning against long-term fear memory**

Jessie Taylor, Ai Koizumi^{2,3}, Hakwan Lau, Aurelio Cortese, Kaoru Amano, Ben Seymour^{2,3,6}, Wako Yoshida^{2,3,6}, Takeo Watanabe, Yuka Sasaki, Kazuhisa Shibata, Mitsuo Kawato

12:05~ 12:20 **Phobia**

Toshinori Chiba^{2,7}, Ai Koizumi, Kaoru Amano, Mitsuo Kawato

12:20~ 13:45

- - - **Lunch Meeting for speakers and registered attendees** - - -

Session 3 Chair: Takashi Yamada²

13:45~ 14:25 **MEG-DecNef for phantom limb pain**

Takufumi Yanagisawa^{2,3,8}

14:25~ 14:40 **fMRI-DecNef for phantom limb pain**

Takufumi Yanagisawa, Kazuhisa Shibata

14:40~15:10 The challenge of ameliorating depressive symptoms using connectivity-based neurofeedback
Takashi Yamada²

15:10~15:25 - - - Break - - -

Session 4 Chair: Yuki Sakai^{2,9}

15:25~15:40 DecNef for pain
Ben Seymour (only voice), Kazuhisa Shibata,
Wako Yoshida, Mitsuo Kawato

15:40~16:10 OCD therapy
Yuki Sakai^{2,9}, Yu Takagi^{2,12,13}, Saori Tanaka²

16:10~16:25 - - - Break - - -

Session 5 Chair: Toshinori Chiba^{2,7}

16:25~16:40 Episodic memory
Takeo Watanabe, Yuka Sasaki, Kazuhisa Shibata, Mitsuo Kawato

16:40~16:55 Multi-voxel information transmission DecNef
Kazuhisa Shibata, Takeo Watanabe, Yuka Sasaki, Mitsuo Kawato

16:55~17:10 Value integration, learning from small sample, consciousness adaptivesignificance
Aurelio Cortese, Benedetto De Martino¹⁰, Hakwan Lau, Mitsuo Kawato

17:10~17:25 Changing pessimistic perception and implicit attitudes toward the self Makiko Yamada¹¹

17:25~17:40 DecNef けいはんなリサーチコンプレックスにおける医療・産業応用の可能性について Mitsuo Kawato

¹UCLA, ²ATR, ³NICT-CiNet, ⁴Brown University, ⁵Nagoya University, ⁶University of Cambridge, ⁷National Defense Medical College(防衛医科大学), ⁸Osaka University,

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¹¹National Institutes for Quantum and Radiological Science and Technology(量子科学技術研究開発機構)

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¹³ Research Fellow of Japan Society for the Promotion of Science (日本学術振興会特別研究員 DC1)

40 min talk (published): 30 min presentation, 10 min discussion

30 min talk (ongoing): 20 min presentation, 10 min discussion

15 min talk (plan): 8 min presentation, 7 min discussion