## 3rd European Advanced Accelerator Concepts Workshop



Contribution ID: 213 Type: talk

## Experimental investigation of sheath-driven proton acceleration in the ultra-short pulse, ultra-high intensity regime

Monday, 25 September 2017 16:50 (20 minutes)

The behaviour of high power laser driven ion generation at the extreme intensities available at next-generation laser facilities is an important topic for realising potential applications. One of the simplest schemes for proton sources for applications is sheath acceleration, for which different models predict varying dependence on laser and target parameters, motivating experimental investigation.

We will present experimental data investigating sheath driven proton acceleration using the ultra-high in

**Primary author:** Dr DOVER, Nicholas (National Institutes for Quantum and Radiological Science and Technology, Japan)

Co-authors: Dr KON, Akira (National Institutes for Quantum and Radiological Science and Technology, Japan); Dr SAGISAKA, Akito (National Institutes for Quantum and Radiological Science and Technology, Japan); Dr PIROZHKOV, Alexander (National Institutes for Quantum and Radiological Science and Technology, Japan); Prof. FAENOV, Anatoly (Osaka University, Japan and Russian Academy of Sciences, Russia); Dr SAKAKI, Hiranao (National Institutes for Quantum and Radiological Science and Technology, Japan); Dr KOGA, James (National Institutes for Quantum and Radiological Science and Technology, Japan); Dr NISHITANI, Keita (Kyushu University, Japan and National Institutes for Quantum and Radiological Science and Technology, Japan); Dr KONDO, Kiminori (National Institutes for Quantum and Radiological Science and Technology, Japan); Dr HIROMITSU, Kiriyama (National Institutes for Quantum and Radiological Science and Technology, Japan); Dr OGURA, Koichi (National Institutes for Quantum and Radiological Science and Technology, Japan); Dr KONDO, Kotaro (National Institutes for Quantum and Radiological Science and Technology, Japan); Dr NISHIUCHI, Mamiko (National Institutes for Quantum and Radiological Science and Technology, Japan); Ms ALKHIMOVA, Mariya (National Research Nuclear University (MEPhI), Russia); Dr KANDO, Masaki (National Institutes for Quantum and Radiological Science and Technology, Japan); Mr MIYAHARA, Takumi (Kyushu University, Japan and National Institutes for Quantum and Radiological Science and Technology, Japan); Dr PIKUZ, Tatiana (Osaka University, Japan and Russian Academy of Sciences, Russia); Dr FUKUDA, Yuji (National Institutes for Quantum and Radiological Science and Technology, Japan); Prof. WATAN-ABE, Yukinobu (Kyushu University, Japan)

**Presenter:** Dr DOVER, Nicholas (National Institutes for Quantum and Radiological Science and Technology, Japan)

Session Classification: WG2\_Parallel

Track Classification: WG2 - Ion Beams from Plasmas