The Research of Rydberg matter phases in currently active in Leif Holmlid’s lab at Gothenburg University in Sweden, in Oslo S-Z. Gunderson’s lab and then in Iceland. There is lot of activity in the world related to low energy reactions LENR but not within the context of Rydberg Hydrogen phases which we think could be behind most of the reported LENR strange phenomena, cold fusion, transmutation of elements and more.

Figure 1. Experimental setup at Science Institute University of Iceland

Here we describe the Rydberg matter experimental setup that has been under construction for the last 4 years at Science Institute University of Iceland. For the last two years Technology Research Fund of Icelandic Research Council has financed an instrumentation build-up phase project that has now 4 operational cells with different functions. The first cell from 2014 has now three other cells that have specialization regarding, vibrational excitation, ultra-high vacuum pressure and laser excitation. Laser experiments are expected to become functional in middle 2018 based on experience setting up replication experiment with S-Z. Gundersen in Oslo Norway and Leif Holmlid in Gothenburg Sweden.