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Search for gravitational waves from neutron stars: first results from Einstein@Home REINHARD PRIX, Albert-Einstein Institut, FOR THE LIGO SCIENTIFIC COLLABORATION — The sensitivity of a search for unknown sources of continuous gravitational waves (such as could be emitted from rotating neutron stars) is limited to a large degree by the necessary computational power. In order to optimize the probability of detection, one has to use the most efficient search algorithm and maximize the available computing power. Einstein@Home is a large-scale public computing framework that allows one to achieve both of these goals by distributing the search to a large number of participating computers on the internet. In this talk we present results from the Einstein@Home search using data from the third scientific LIGO run (S3).

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