

Status and Future of NEWS-G

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The NEWS-G collaboration searches for low mass dark matter particles with spherical proportional counters (SPCs) filled with light atomic mass gases. The current phase of the experiment, a 140-cm diameter SPC, is set to start searching for dark matter as soon as spring or summer 2021. The collaboration is planning to replace the commercial copper SPC with a fully electroformed SPC to be fabricated at SNOLAB at the ECUME facility. The collaboration is also interested in the possibility of constructing the next generation NEWS-G experiment, a 5-meter diameter electroformed SPC: DarkSphere.

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Session Classification: Dark Matter Searches