

# A VOLUME-COMPLETE SAMPLE OF HOT SUBLUMINOUS OBJECTS WITH GAIA

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Hot subluminoous pre-white dwarf objects occupy the sparsely populated region between the main sequence and the white dwarf (WD) cooling track in the Hertzsprung-Russel diagram. A diverse zoo of evolutionary phases can be found here ranging from the transient helium-core WD progenitors and post-AGBs, to the more stable cataclysmic variables (CVs) and helium-burning hot subdwarfs. However, we cannot yet satisfactorily explain the genesis of some members of this group, which remains a missing piece of the puzzle. The ambition of this work is to construct the first spectroscopically confirmed volume-limited sample of these stars within 500 pc using Gaia EDR3. In this poster presentation, I will report on the current status of this sample and aim to deliver a prognosis of its application to a variety of astrophysical fields.