

# BEBOP - Binaries Escorted By Orbiting Planets

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Planets orbiting binary stars are key objects to test the planetary formation theories compared to those orbiting single stars. However, only a dozen circum-binary systems have been reported so far, mainly from transit survey while the low transit probability make this technique quite inefficient to explore this population. On the other hand, the radial-velocity method is expected to be more sensitive. Spectroscopic surveys of binary stars have been performed in the late 1990's, but no planet have been reported. A new spectroscopic survey, called BEBOP, has been initiated a few years ago on both SOPHIE @ OHP and HARPS @ ESO, focusing on such binary stars. During this talk, I will present the scientific objectives of BEBOP, the pioneer results as well as the forthcoming ones.