Planet candidates around massive white dwarfs

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Massive white dwarfs provide a unique window to study planet around intermediate mass stars, which are difficult to find. We examined a characteristic signature of giant planets in infrared photometry around young, massive white dwarfs selected with Gaia and cross-matched to Spitzer archival database to search for planets and estimate their occurrence. We found one high-credibility planet candidate and a few marginally credible candidates within 100 pc. They are ideal targets for direct imaging follow-ups using the JWST. The resulting occurrence of giant planets is consistent with the estimate from doppler method.