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Abstract:

Studies of the host galaxies and environments of fast radio bursts (FRBs) help to discern FRB progenitors. The fact that repeating FRBs are in complex environments and only repeating FRBs are found to be associated with persistent radio sources (PRS) raise the possibility of searching for repeating FRBs toward PRSes, particularly those misidentified as active galactic nuclei (AGN). Here we propose a survey to periodically monitor 9 PRS candidates to search for possible repeating FRBs. Our proposed observations will either discover new repeating FRBs or split the association between FRBs and PRSes.