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Accretion-modified stars in active galactic nuclei: theory and observations

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There is increasing evidence for that stars including compact stars unavoidably exist in accretion disks of active galactic nuclei. These stars are rapidly accreting and thus have tracks different from field stars, leading to dramatic increases of metallicity and outbursts from radio and gamma rays. Compact binary stars are formed in the disks and radiate gravitational waves after they merge. AGNs are ideal laboratories of multi-messenger astronomy.

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