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Investigating the temporal behaviour of simulated multi-wavelength blazar variability for coloured noise variations.

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It is characteristic of multi-wavelength blazar variability to exhibit temporal signatures of coloured noise. We therefore simulate multi- wavelength blazar variability by means of time-dependent blazar modeling and introduce different generated sets of coloured noise variations. The different sets of variations specifically cover a spectrum of pure power law indices in temporal frequency representative of coloured noise. A correlation in pure power law index between variations and multi-wavelength variability is found. Additionally cases of broken power laws were identified in some wavelengths.

Track

AGN

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