

Seasonal Variations of the Unfolded Atmospheric Neutrino Spectrum with IceCube

- Temperature variations in the atmosphere cause seasonal variations in the neutrino rate and possibly shape changes in the energy spectrum
- Impact on hadronic interactions in cosmic ray air showers and background measurement of astrophysical neutrinos
- Seasonal spectrum reconstruction with machine-learning-based unfolding techniques
- Model-independent measurement of seasonal variations by the ratio of seasonal spectra to annual mean

