

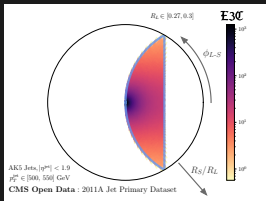
# New Angles on Energy Correlators

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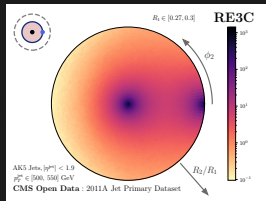
[arxiv.org/abs/2410.xxxx](https://arxiv.org/abs/2410.xxxx)

[github.com/samcafi/ResolvedEnergyCorrelators](https://github.com/samcafi/ResolvedEnergyCorrelators)

## Traditional Correlators



## New Correlators!



## Efficient Computation

$N$ -particle correlations

$\mathcal{O}(M^2 \ln M)$  new scaling

$\ll$

$\mathcal{O}(M^N)$  old scaling

## Energy Correlators

Separate scales in QCD jets

$\alpha_s, m_t, \ell_{\text{QGP}}$

## New Energy Correlators

Faster computation & visually intuitive!

Enables previously unimaginable analyses!

