3D angle gathers from wave-equation extended images

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angle decomposition

wavefields
  Poynting vector
  local FFT

images
  extended images
CIGs

\[ R (x, \lambda) = \sum_{j, \omega} u_s (j, x - \lambda, \omega) u_r (j, x + \lambda, \omega) \]

CIPs

\[ R (c, \lambda, \tau) = \sum_{j, \omega} u_s (j, c - \lambda, \omega) u_r (j, c + \lambda, \omega) e^{2i\omega\tau} \]
moveout function

\[
z = z_0 - (q \cdot \lambda) \tan \theta \frac{n_z}{n \cdot \lambda = 0}
\]

\[
\nu \tau = (q \cdot \lambda) \sin \theta \\
\]

(Yang and Sava, 2010) (Sava and Vlad, 2011)
acknowledgment

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