

Seismic Anisotropy I: What interpreters need to know

Outline

- **Physical principles**
 - Anisotropy vs heterogeneity
 - Thin-bed wave propagation
 - Polar Anisotropy: formulae
 - Azimuthal Anisotropy
- **P-waves (imaging)**
 - The effect of δ
 - The effect of η
 - Time migration
 - Depth migration
 - Determining the parameters
 - Dipping anisotropy
- **P-waves (characterization)**
 - Isotropic AVO
 - Polar anisotropic AVO
 - Azimuthally anisotropic AVO
- **Epilogue**