Asteroid Imaging

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Single-orbiter → zero-offset
Single-orbiter \quad \longrightarrow \quad \text{zero-offset}
Single-orbiter $\rightarrow$ zero-offset
Dual-orbiter $\rightarrow$ multi-offset
Dual-orbiter → multi-offset
1.9 km

Tx

Rx

Dual-orbiter → multi-offset
Wave equation

\[ \nabla^2 E = \mu \sigma \frac{\partial E}{\partial t} + \mu \varepsilon \frac{\partial^2 E}{\partial t^2} \]

\[ \mu: \text{ magnetic permeability (H/m)} \]

\[ \varepsilon: \text{ electric permittivity (F/m)} \]

\[ \sigma: \text{ conductivity (S/m)} \]
Zero-offset migration
1 Shot-record migration
Smooth velocity model
Zero-offset migration
Acknowledgments

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