Rapid Search of Large Seismic Signal Archives

**Highlight:** Using Kernelized Locality-Sensitive Hashing (KLSH) indexing, we can search a library of 237K waveforms to find matches with an unknown waveform in ~1 second using a single desktop computer.

**2006-2013 MKAR**
181,777 Events ➔ 237,387 Signals

“Unknown” signal from Jan. 17, 2014 (this was identified as PKiKP by an analyst)

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