

**February 25:** Sigurdur Helgason (MIT), “Range questions for the Fourier transform on the symmetric space  $G/K$ .” I will quickly review some “familiar” facts from Euclidean Fourier analysis, then survey (with some proofs) what is known and what is not known (or “known” but not proved) about the analogs for the Fourier transform on the symmetric space  $G/K$ .