LEPR\_AllPhases Tanh Latent Space Representation Oxide Apatite Biotite Quartz 6 Clinopyroxene Olivine Garnet KSpar 4 Spinel Amphibole Orthopyroxene Plagioclase 2 Latent Variable 2 0 -2 -4 -6 -2 -6 -44 6 Latent Variable 1