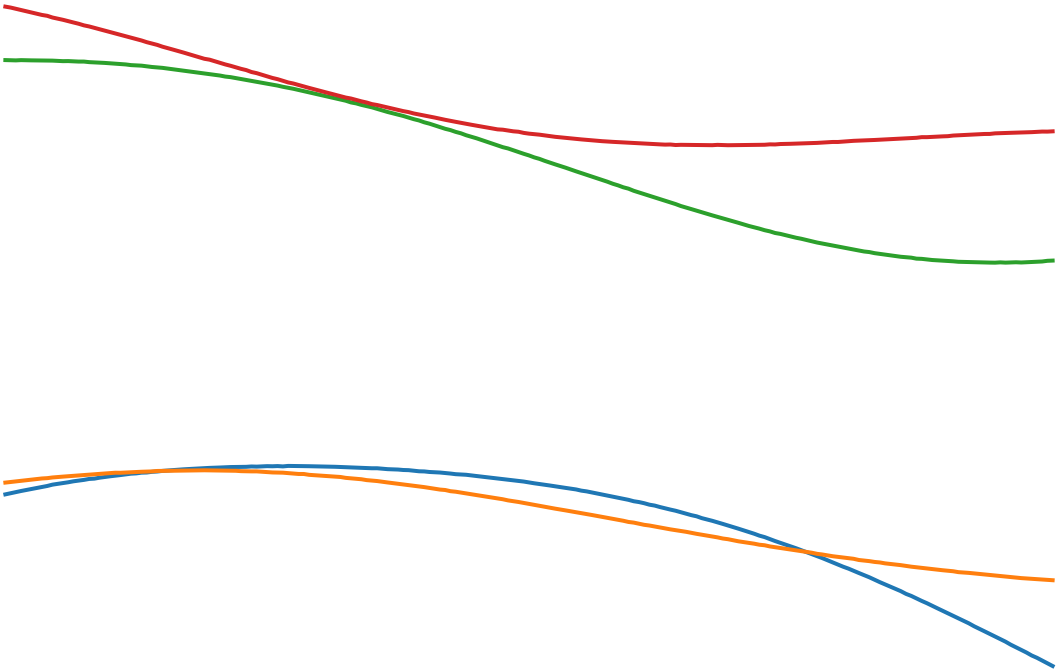# medse_kernel