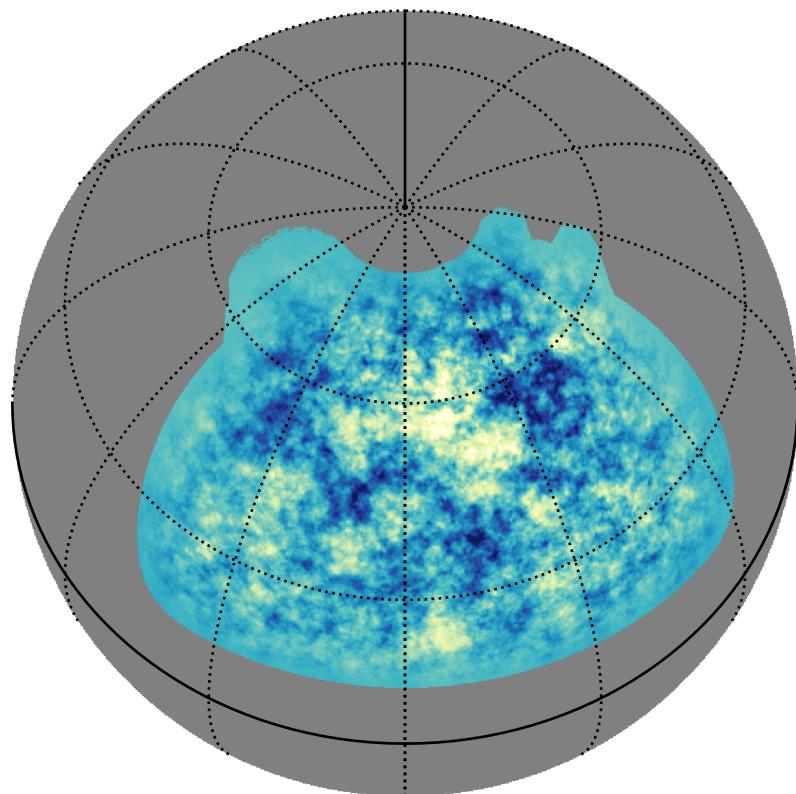reconstructed deflection