

Figure 1: Single-null geometry of the 2D edge region simulated showing the coordinates used and the magnetic-field components; here I_p is the plasma current that generates the poloidal field B_x . The vector \mathbf{w} is in the so-called bi-normal direction $\hat{\mathbf{i}}_{||} \times \hat{\mathbf{i}}_y$ with $\hat{\mathbf{i}}_{||}$ being along the total \mathbf{B} -field.