$$u^s(x) = (\mathcal{D}_k \circ \mathcal{S}_K - i\eta \mathcal{S}_k)\mu(x), \;\; x \in \mathbb{R}^3 \setminus \Omega$$

$$\left(i\eta(\frac{1}{2}\mathcal{I} - \mathcal{D}'_k) - \frac{1}{4}I + (\mathcal{D}'_k)^2 \right) \mu(x) = g$$