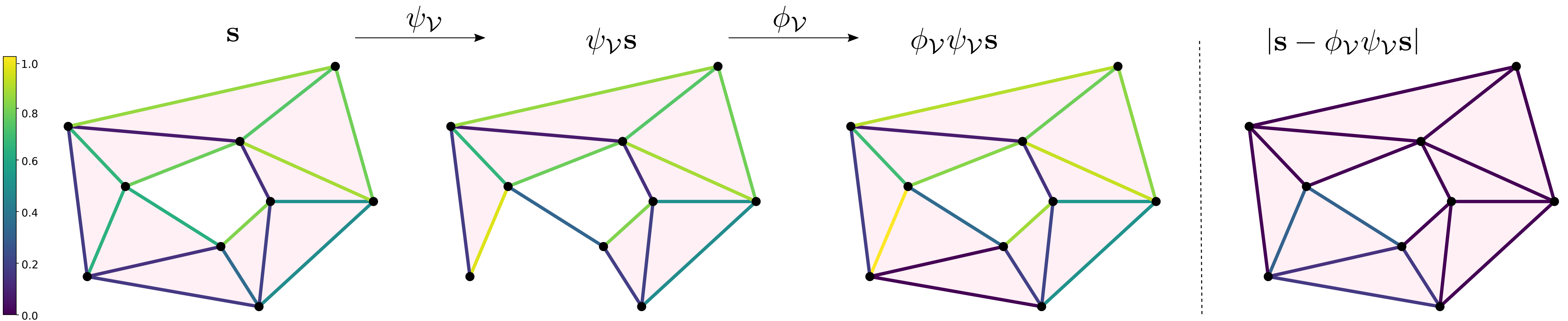
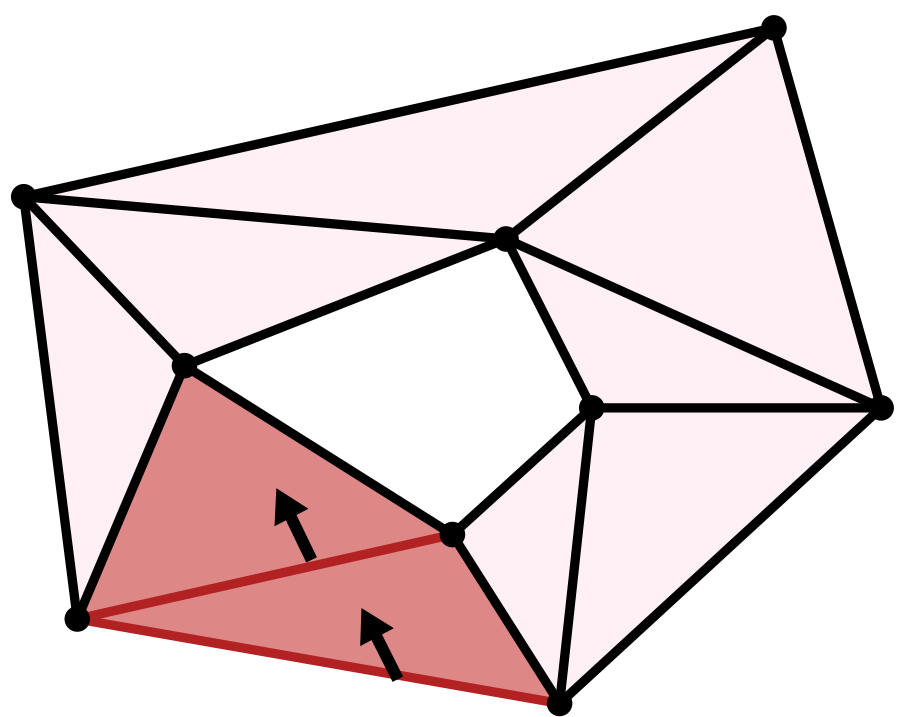


A Up-collapse and reconstruction of signal s **B** Reconstruction error**C** Up-matching \mathcal{V} **D** Projection of s and $\phi_{\mathcal{V}}\psi_{\mathcal{V}}s$ on the Hodge decomposition