Unavoidable Immersions of 3-Edge-Connected Graphs

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Oporowski, Oxley, and Thomas showed that there is a function \( f \) such that every 3-connected graph of sufficient order, \( f(n) \), contains a minor isomorphic to a wheel, \( W_n \), or \( K_{3,n} \). We prove an analogous result for immersion, giving the unavoidable immersions of 3-edge-connected graphs, and a conjecture for the unavoidable immersions of 4-edge-connected graphs.

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