The IH-complex of spatial trivalent graphs

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Abstract. This is a joint work with Atsushi Ishii. An IH-move is a local spatial move of a spatial trivalent graph. We define the IH-distance between two spatial trivalent graphs by the minimal number of IH-moves needed to transform one into the other. We give a lower bound for the IH-distance by using invariants for flowed spatial graphs. We introduce the IH-complex and show some fundamental properties of the complex.