Title: Extrinsic diameter of immersed flat tori in the unit 3-sphere

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Abstract: Diameter conjecture on flat tori in S^3 states that the extrinsic diameter of every flat torus isometrically immersed in the unit 3-sphere S^3 is equal to π . This conjecture is closely related to the rigidity problem on the Clifford tori in S^3 . In this talk, introducing a representation theorem for flat tori in S^3 , I explain a recent result which shows that the conjecture is true for every isometrically immersed flat torus in S^3 whose mean curvature function does not change sign. This is a joint work with Masaaki Umehara (Osaka).