报告题目：Value distribution properties for the Gauss maps of the immersed harmonic surfaces

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报告摘要：

Motivated by some results on Gauss maps of minimal surfaces, we first investigate the value distribution properties for the generalized Gauss map of an immersed harmonic surface in $\mathbb{R}^n$. After building a relation between the generalized Gauss map and the classical Gauss map for the K-quasi-conformal harmonic surfaces, we derive that, for a complete K-quasi-conformal harmonic surface immersed in $\mathbb{R}^3$, if its unit normal $n$ omits seven directions in $S^2$ and any three of which are not contained in a plane in $\mathbb{R}^3$, then the surface must be flat. In addition, some estimates of the Gaussian curvature for the K-quasi-conformal harmonic surfaces in $\mathbb{R}^3$ are given. These are some joint work with Xingdi Chen, Yezhou Li and Min Ru.