Fibrations of Euclidean Space by Skew Flat Fibers

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Two copies of R^p are called skew if they neither intersect nor contain parallel directions. We discuss a recent result of Ovsienko and Tabachnikov which gives conditions on p and n for the existence of a fibration of R^n by pairwise skew, oriented copies of R^p. We then provide some positive results in the direction of classifying skew fibrations, including a slight generalization of Salvai's recent characterization of smooth, skew fibrations in the case where $n = 3$ and $p = 1$. To conclude, we examine the relationship between spherical fibrations and flat fibrations, and we offer a number of avenues for further study in this area.