THE ARF–KERVAIRE INVARIANT OF FRAMED MANIFOLDS AS AN OBSTRUCTION TO EMBEDDABILITY

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ABSTRACT. We prove that no 14–connected (resp. 30-connected) stably parallelizable manifold N^{30} (resp. N^{62}) of dimension 30 (resp. 62) with the Arf-Kervaire invariant 1 can be smoothly embedded into $\mathbb{R}^{56}$ (resp. $\mathbb{R}^{85}$).

1. Closed stably parallelizable manifolds with a nontrivial Arf–Kervaire invariant

Let us consider a closed stably framed n–dimensional manifold. Such a manifold is presented by the pair (N^n, Ξ), where N^n is a closed manifold of the dimension $\dim(N) = n$, and Ξ is an isomorphism of bundles $\Xi : \nu(N) = \mathbb{R}^k \times N^n$, where $\nu(N)$ is the k–dimensional normal bundle of N^n, $k > n + 1$. A stably parallelizable manifold is a stably framed manifold with the forgotten stable framing.

Suppose that $n = 2^s - 2 = 4l + 2$ and that N^n is $2l$–connected. Then N^n is diffeomorphic to the connected sum of manifolds of the following three types (see Kreck (2000) for the proof and further references):

- closed manifold Σ^n, homotopically equivalent to the standard n–dimensional sphere;
- product of two standard spheres $S^{2l+1} \times S^{2l+1}$;
- standard Arf-Kervaire manifold (constructed later).

A connected sum of two third type manifolds is diffeomorphic to the standard sum of some number of first and second type manifolds. The dimension $\dim(H_{2l+1}(N^n; \mathbb{Z}/2))$ is always even and equals to $2p$, where p is the number of the summands of second and third type. Following the statement of the Hill, Hopkins and Ravenel Theorem, third type manifold can be constructed only for $l = 5, 6$ and eventually 7 (see Hill *et al.* 2016). The above statement was proved by Akhmetiev (2022, p. 3), except for possibly finite number of exceptional cases (there is an error in the proof of Proposition 2: the mapping of regular cobordism classes on p.34 is not a homomorphism).

Definition 1.1. A $2l$–connected manifold N^n, $n = 4l + 2$, is said to have a nontrivial Arf–Kervaire invariant if $n = 2^s - 2$, $l = 5, 6$ or 7, and N^n is diffeomorphic to the connected sum of a third type manifold and some number of first and second type manifolds.

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