Spin$^c$ structures on Hantzsche-Wendt manifolds.

Summary: Using a combinatorial description of Stiefel-Whitney classes of closed flat manifolds with diagonal holonomy representation, we show that no Hantzsche-Wendt manifold of dimension greater than three admits a spin$^c$ structure.

MSC:
53C27 Spin and Spin$^c$ geometry
20H15 Other geometric groups, including crystallographic groups

Keywords:
flat manifold; Hantzsche-Wendt manifold; spin structure; spin$^c$ structure

Full Text: DOI

References:
[20] Teichner, P.; Vogt, E., All 4-manifolds have spine structures, unpublished note, available from the authors’ webpage

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