论文

A SIMPLIFIED APPROACH TO EMBEDDING PROBLEMS IN NORMAL BORDISM FRAMEWORK

LI Banghe, LIU Rong, ZHANG Ping

Institute of Systems Science, Academia Sinica, Beijing 100080, China

收稿日期 修回日期 网络版发布日期 接受日期

摘要 The purpose of this paper is to simplify the computations of the normal bordism groups Ω_{-} i ($W_{-}f,M\times P\sim\infty$;\phi_f) and $\Omega_{-}i(C_{-}f,\partial\ W;\theta_{-}f)$ which Salomonsen and Dax introduced respectively to study the existence and isotopy classification of differential embeddings of manifolds in manifolds in the metastable range. A simpler space pair ($K_{-}f,M\times P\sim\infty$) is constructed to replace ($W_{-}f,M\times P\sim\infty$). It is shown that($K_{-}f,M\times P\sim\infty$) is homotopy equivalent to ($W_{-}f,M\times P\sim\infty$) and homotopy (n-1)-equivalent to ($K_{-}f,M\times P\sim\infty$) is homotopy equivalent to ($K_{-}f,M\times$

关键词 <u>Normal bordism group, differential embedd</u>

分类号

A SIMPLIFIED APPROACH TO EMBEDDING PROBLEMS IN NORMAL BORDISM FRAMEWORK

LI Banghe, LIU Rong, ZHANG Ping

Institute of Systems Science, Academia Sinica, Beijing 100080, China

Abstract The purpose of this paper is to simplify the computations of the normal bordism groups Ω_i ($W_f,M\times P\sim\infty$;\phi_f) and $\Omega_i(C_f,\partial\ W;\theta_f)$ which Salomonsen and Dax introduced respectively to study the existence and isotopy classification of differential embeddings of manifolds in manifolds in the metastable range. A simpler space pair ($K_f,M\times P\sim\infty$) is constructed to replace ($W_f,M\times P\sim\infty$). It is shown that($K_f,M\times P\sim\infty$) is homotopy equivalent to ($W_f,M\times P\sim\infty$) and homotopy (n-1)-equivalent to ($C_f,\partial\ W$). To demonstrate the efficacy of this simplification, the isotopy groups [$M\sim n$ \subset $RP\sim (n+k)$], if N=2k-4 and $M\sim n$ is a closed (N=2k-4)-connected manifold, and [N=2k-4] are specifically computed.

Key words Normal bordism group differential embedding isotopy

DOI:

扩展功能

本文信息

- ▶ Supporting info
- ▶ <u>PDF</u>(0KB)
- ▶[HTML全文](0KB)
- ▶参考文献

服务与反馈

- ▶把本文推荐给朋友
- ▶加入我的书架
- ▶加入引用管理器
- ▶复制索引
- ► Email Alert
- ▶ 文章反馈
- ▶ 浏览反馈信息

相关信息

▶ <u>本刊中 包含 "Normal bordism</u> group,differential embedd"的 相关文章

▶本文作者相关文章

- LI Banghe
- · LIU Rong
- ZHANG Ping

通讯作者