

cases	doc_1		doc_2		decision	id
			authors	<ul style="list-style-type: none"><li>Tsuyoshi Kato</li></ul>	DUPLICATES	9
	title	Covering monopole map and higher degree in non commutative geometry	title	Covering monopole map and higher degree in non commutative geometry		
	publication_date	2021-07-05 00:00:00	publication_date	2016-06-08 05:26:28+00:00		
	source	SupportedSources.INTERNET_ARCHIVE	source	SupportedSources.ARXIV		
	journal		journal	None		
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	urls	<ul style="list-style-type: none"><li>https://web.archive.org/web/20210717090957/https://arxiv.org/pdf/1606.02402v4.pdf</li></ul>	urls	<ul style="list-style-type: none"><li>http://arxiv.org/pdf/1606.02402v4</li><li>http://arxiv.org/abs/1606.02402v4</li><li>http://arxiv.org/pdf/1606.02402v4</li></ul>		
	id	id1234223484478316105	id	id5000702616307752810		
	abstract	In this paper we develop analysis of the monopole maps over the universal covering space of a compact four manifold. We induce a property on local properness of the covering monopole map under the condition of closeness of the AHS complex. In particular we construct a higher degree of the covering monopole map when the linearized equation is isomorphic, which induces a homomorphism between K group of the group C^* algebras. It involves non linear analysis on the covering space, which is related to L^p cohomology. We also obtain various Sobolev estimates on the covering spaces. As a possible application, we propose an aspherical version of 10/8 inequality, combining with Singer conjecture on L^2 cohomology. It is satisfied for a large class of four manifolds which includes some complex surfaces of general type.	abstract	In this paper we develop analysis of the monopole maps over the universal covering space of a compact four manifold. We induce a property on local properness of the covering monopole map under the condition of closeness of the AHS complex. In particular we construct a higher degree of the covering monopole map when the linearized equation is isomorphic, which induces a homomorphism between K group of the group C^* algebras. It involves non linear analysis on the covering space, which is related to L^p cohomology. We also obtain various Sobolev estimates on the covering spaces. As a possible application, we propose an aspherical version of 10/8 inequality, combining with Singer conjecture on L^2 cohomology. It is satisfied for a large class of four manifolds which includes some complex surfaces of general type.		
	versions		versions			