

cases	doc_1		doc_2		decision	id
			<div>authors</div> <div>title</div> <div>publication_date</div> <div>source</div> <div>journal</div> <div>volume</div> <div>doi</div> <div>urls</div> <div>id</div> <div>abstract</div> <div>versions</div>	<div><div><div><div>• Victor Nistor</div><div>• Evgenij Troitsky</div></div></div><div>An index for gauge-invariant operators and the Dixmier-Douady invariant</div><div>2002-02-18 00:00:00</div><div>SupportedSources.INTERNET_ARCHIVE</div><div></div><div></div><div></div><div></div><div>• https://archive.org/download/arxiv-math0201207/math0201207.pdf</div><div>id6554075409947381691</div><div>Let $\hat{A}^* B$ be a bundle of compact Lie groups acting on a fiber bundle $Y \hat{A}^* B$. In this paper we introduce and study gauge-equivariant K-theory groups $K^*(Y)$. These groups satisfy the usual properties of the equivariant K-theory groups, but also some new phenomena arise due to the topological non-triviality of the bundle $\hat{A}^* B$. As an application, we define a gauge-equivariant index for a family of elliptic operators $(P_b)_b \hat{A}^* B$ invariant with respect to the action of $\hat{A}^* B$, which, in this approach, is an element of $K^0(B)$. We then give another definition of the gauge-equivariant index as an element of $K_0(C^*(\cdot))$, the K-theory group of the Banach algebra $C^*(\cdot)$. We prove that $K_0(C^*(\cdot)) \cong K^0(\cdot)$ and that the two definitions of the gauge-equivariant index are equivalent. The algebra $C^*(\cdot)$ is the algebra of continuous sections of a certain field of C^*-algebras with non-trivial Dixmier-Douady invariant. The gauge-equivariant K-theory groups are thus examples of twisted K-theory groups, which have recently proved themselves useful in the study of Ramond-Ramond fields.</div><div></div></div>	DUPLICATES	335
	<div>authors</div> <div>title</div> <div>publication_date</div> <div>source</div> <div>journal</div> <div>volume</div> <div>doi</div> <div>urls</div> <div>id</div> <div>abstract</div> <div>versions</div>	<div><div><div><div>• Victor Nistor</div><div>• Evgenij Troitsky</div></div></div><div>An index for gauge-invariant operators and the Dixmier-Douady invariant</div><div>2003-08-25 00:00:00</div><div>SupportedSources.INTERNET_ARCHIVE</div><div>American Mathematical Society (AMS)</div><div></div><div>10.1090/s0002-9947-03-03370-1</div><div>• https://web.archive.org/web/20200812015804/https://www.ams.org/journals/tran/2004-356-01/S0002-9947-03-03370-1/S0002-9947-03-03370-1.pdf</div><div>id-2702760828692143107</div><div></div><div></div></div>				