Pub	licationes Mathematicae Debrece	en Year: 2023	Vol.: 102	Fasc.: 1-2
Title: On isoclinism and Baer's theorem for Lie superalgebras				
Autl	hor(s): Saudamini Nayak			
In this paper, we define isoclinism for Lie superalgebras and using the concept of isoclinism, we give the structure of all covers of Lie superalgebras when their Schur multipliers are finite dimensional. It has been shown that the maximal stem extensions of Lie superalgebras are precisely same as the stem covers. Furthermore, we have defined stem Lie superalgebra and prove that each isoclinic family C contain a stem Lie superalgebra T , and it is the one having minimum even and odd dimension. Finally, we have proved a converse of Schur's theorem and have given a bound for the stem Lie superalgebra. Then we state and prove Baer's theorem (generalisation of Schur's theorem) and a converse of it.				
Add	ress:			
Saud	amini Nayak			
and	Applications			
And	arua			
Bhub	baneswar-751029, Odisha			
India	, L			
and				
Depa	rtment of Mathematics			
Natio	onal Institute of			
Tech	nology, Calicut			
NIT	Campus, P.O. 673601			
Kozh	ikode			
India	L.			