

PRIMITIVE IDEALS OF TOEPLITZ ALGEBRA OF ORDERED GROUPS

RIZKY ROSJANUARDI

Abstract. The topology on primitive ideal space of Toeplitz algebras of totally ordered abelian groups can be identified through the upwards-looking topology if and only if the chain of order ideals is well-ordered. We describe the topology on primitive ideal space of Toeplitz algebra of totally ordered abelian groups when the chain of order ideals is not well ordered.

Received 4-6-2008, Accepted 6-12-2008.

2000 Mathematics Subject Classification: 46L55

Key words and Phrases: Toeplitz algebra, totally ordered group, primitive ideal.

Rizky Rosjanuardi: Department of Mathematics Education, Universitas Pendidikan Indonesia (UPI), Bandung 40154, Indonesia.

E-mail: rizky@upi.edu.