

> 661 Topics Mathematical Logic Cholak 2001 F

Hyperarithmetical Hierarchy. We used the first part of Sacks' book "Higher Recursion". Mainly we discussed Kleene's O and Σ^1_1 completeness, HYP. We showed that the Borel sets are the same as the HYP sets. We proved several versions of the Kreisl-Barwise Compactness Theorem and several applications including Scott's Rank Theorem.