

Classification theory

Exercise 4

1. Exercise 3.2.
2. Exercise 3.4.
3. Exercise 3.13.
4. Exercise 4.2 (i).
5. Let $\mathcal{A} = (\{f : \omega \rightarrow \omega_1\}, E_n)_{n < \omega}$, where $(f, g) \in E_n$ if for all $i > n$, $f(i) = g(i)$ (there is no typo here). Let $B \subseteq \mathcal{A}$ be the set of all $f \in \mathcal{A}$ such that for some $n < \omega$, $f(i) = 0$ for all $i > n$. Let $C \subseteq B$ be the set of those $f \in B$ such that $\text{rng}(f) \subseteq \omega$. Show that for every element $a \in B$, $t(a/C; \mathcal{A})$ splits strongly over \emptyset .