$$A_0 \subseteq A_1 \subseteq A_2 \subseteq \cdots$$
 $B_0 \subseteq B_1 \subseteq B_2 \subseteq \cdots$

and
$$A = VA$$
, $B = VA$,

$$R_{2e+1}: X_A \neq \overline{\Phi}_e^B$$

Rzetz:
$$\chi_B \neq \Phi_e^A$$

Stage 0:
$$A_0 \leftarrow \emptyset$$

$$B_0 \leftarrow \emptyset$$

$$\left[\begin{array}{c} \chi_j^* \leftarrow j \\ r_j^* \leftarrow -1 \end{array} \right] \quad \text{(we don't actually two to do anything here)}.$$

4570, Stage St1

choose the least j & S s.t. Rj needs attention, i.e.

 $P_{e,s}^{B_s}(x_i^s) \downarrow = 0$ and $v_j^s = -1$, Assumry j = 2e+1. The case in which

jis ever 15 andogovo, we simply switch merolus of A&B.

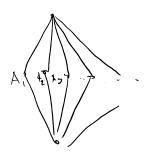
We do the following.

$$(2) \qquad X_{j}^{sr'} \longleftarrow X_{j}^{s}$$

(3)
$$v_i^{s+1} \leftarrow 1 + \text{ the right most position of oracle build during } \overline{\mathbb{P}}_{e}^{B_s}(x_i^s).$$

(5)
$$\forall n \in \mathbb{N}$$
 $j \in \mathbb{N}$ do
$$\begin{cases} x_n^{s,t} \leftarrow \text{ with } \{y: y > \text{ each withuss and each } r\text{-value assigned so fur} \} \\ r_n^{s,t} \leftarrow -1 \end{cases}$$

generalize the F-M construction to obtain R.e sets A., Az,...
that are pairwise incomparable.



Requirements in a donetailing numer.

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