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**Admissible (Rees) exact sequences and flat acts.** (English) [Zbl 07780399](#)

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Let  $S$  be a commutative pointed monoid. An  $S$ -act is a pointed set together with an action by  $S$ . The notion of Rees short exact sequence of  $S$ -acts was introduced in [*M. Jafari et al.*, *Math. Slovaca* 69, No. 5, 1293–1301 (2019; [Zbl 1483.20116](#))]. This paper considers some properties of Rees short exact sequences, showing that every admissible short exact sequence of  $S$ -acts is Rees exact, and that every Rees short exact sequence is exact.

Reviewer: [Hirokazu Nishimura \(Tsukuba\)](#)

**MSC:**

**18A30** Limits and colimits (products, sums, directed limits, pushouts, fiber products, equalizers, kernels, ends and coends, etc.)

**18B20** Categories of machines, automata

**18G05** Projectives and injectives (category-theoretic aspects)

**Keywords:**

*S*-act; Rees exact sequence; admissible exact sequence; admissibly projective acts

**Full Text:** [DOI](#)

**References:**

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