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A comparison of self-oscillating phonation models¹ MICHAEL MCPHAIL, Penn State University, ELIZABETH CAMPO, Luminex Corporation, GAGE WALTERS, MICHAEL KRANE, Penn State University — This talk presents a comparison of self-oscillating models of phonation. The goal is to assess how well synthetic rubber vocal folds reproduce the gross behavior of phonation. Data from molded rubber folds and a variety of excised mammalian larynges were collected from the literature and from the authors' physical model. Gross trends are discussed and a simple scaling is presented that appears to collapse these data. Finally, comparisons between molded rubber folds and excised larynges are highlighted.

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