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Directivity of a Thai Low-pitched Bowed String-instrument, Saw-U

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To preserve good quality of a musical instrument, a study of its acoustic property is very crucial.. In this study, the directivity of a Thai Low-pitched Bowed String-instrument, so-called Saw-U, made by a renowned Thai musical instrument manufacturer is studied. The directivity is also quite important for other acoustical utilization, such as architectural acoustics and auralisation (e.g. sound field simulation). The aim of this study is to measure and analyze the directivity patterns and characteristics of this instrument, as well as preserve and pass on its quality. The measurement was carried out on the saw-u performed by a professional music player in an anechoic chamber. The results show that the saw-u has a unique directional characteristics.

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