

Screenshots of the spectrogram and oscillogram of the original human laugh (*H*) (*top*) and the variation-rich laugh version *V* of the articulatory synthesizer [3] (*below*). Both show the acoustic signal of the laugh, with an *onset*, a *main part*, a *pause*, and an *offset*; at the *bottom*, temporally aligned: Gestural score used to simulate the laugh *version V*. It depicts the articulatory events of that laugh, using the following gestures: 1st tier: vocalic gesture “E:” for the open-mid front unrounded vowel /ɛ:/, 2nd tier: consonantal gesture “E:_Pharynx” for a slight constriction in the pharynx, 3rd tier: no gestures for velic aperture, 4th tier: glottal gestures “open” and “close” in an alternating sequence, 5th tier: F0 phrase components for the phrasal (long-term) intonation contour, 6th tier: F0 accent components for short-term F0 variations, 7th tier: subglottal pressure gestures simulating the airflow throughout the laugh.

