



## Dancing Paper Bits on a Snare Drum

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2nd place, contrived category, 2001

A computer was used to set off 8 flashes covered with colored cellophane in a rainbow sequence, 5.5 milliseconds apart. When the drumstick hit the drum, a sound trigger picked up the sound and sent a signal to the computer interface to discharge the flashes. The white circles, which are paper bits from a hole punch, jump in response to the vibration of the drumhead. Where the amplitude of the vibration is greatest, the paper jumps higher. This occurs at the center of the drumhead. This point is the antinode of the standing wave set up on the drumhead.