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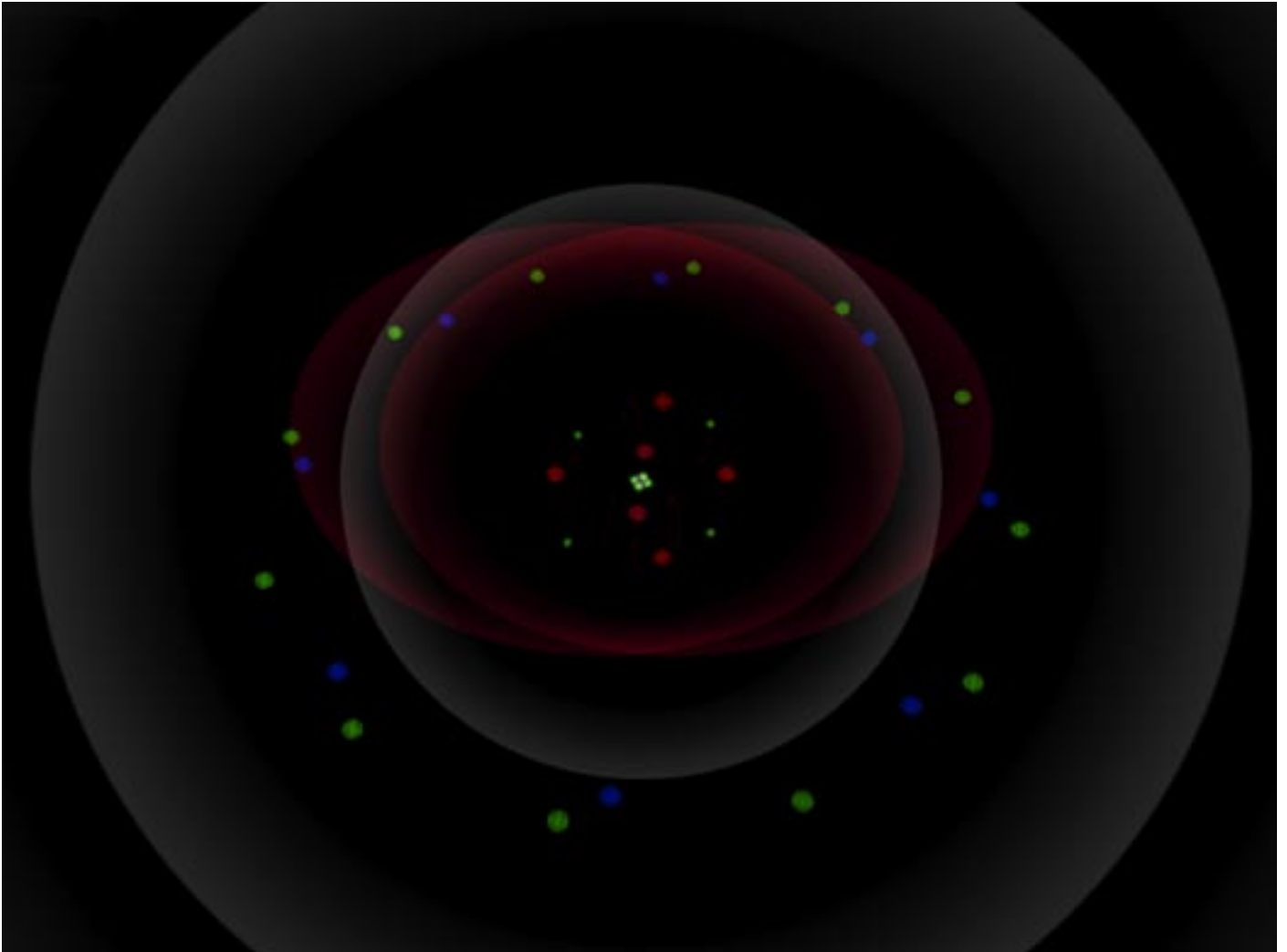
Nutshell



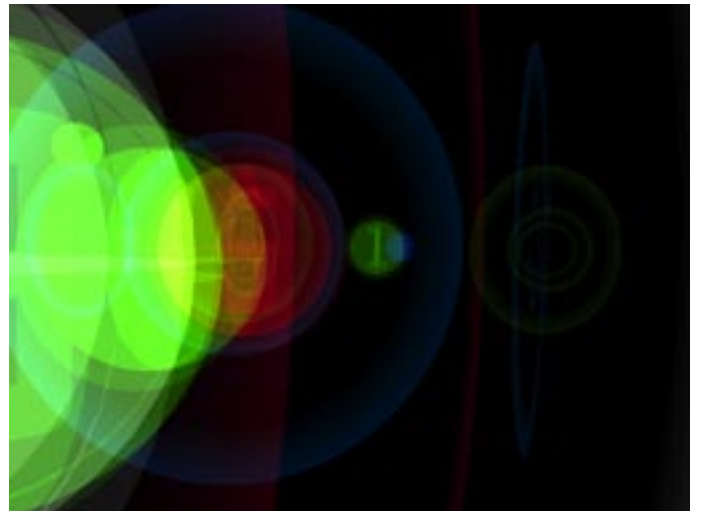
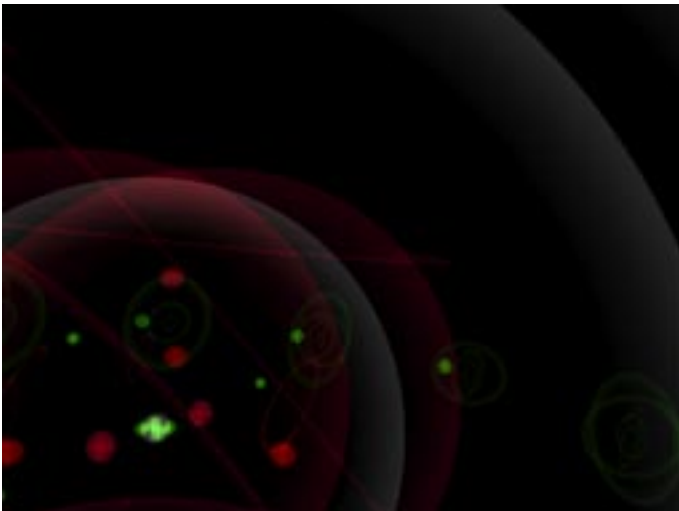
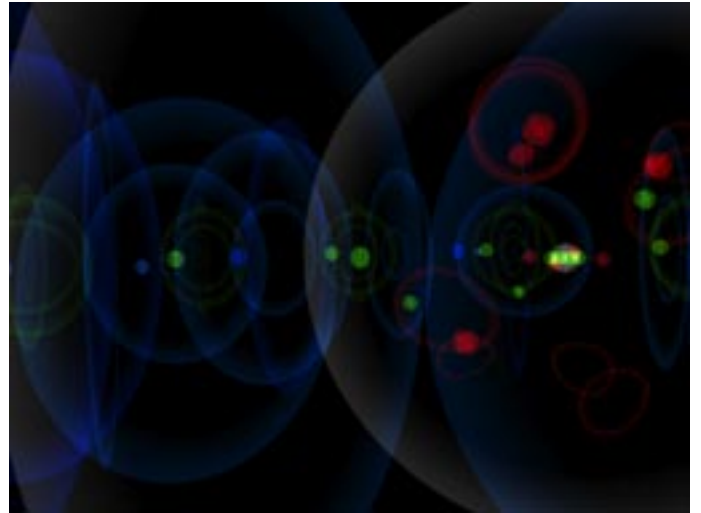
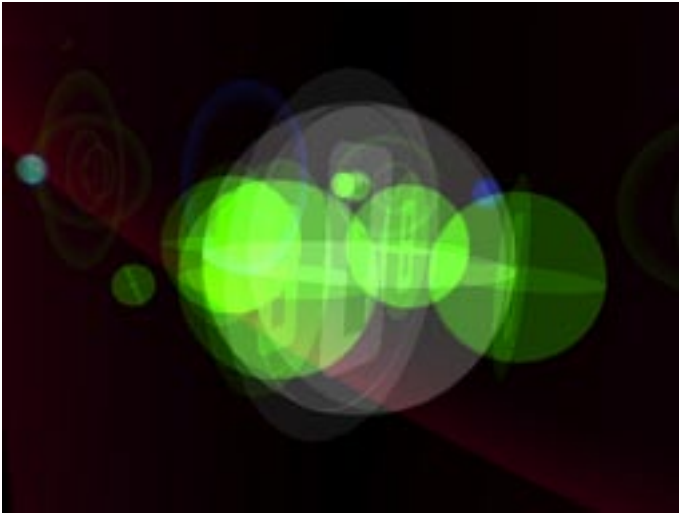
"What I wanted to create was a sequencer working like a tempo-galaxy: the user navigates or jumps through the orbits, composing music with sounding planets. Each orbit has its own sound-scape where the number of planets is equivalent to division of measure. Stephen Hawking's book "The universe in a nutshell" inspired me, cutting edge of theoretical physics, hard but exciting".

Marc Wathieu.

<http://www.mast-r.org>



In space, there are 3 ways to perceive a sound-scape, either you move the listener, either you move the sounds, either you combine both movements. In space navigable music, the spatial parameters of static sounds is the smallest subset of coordinates and parameters based on the position, an emitting radius (the distance from the position «center» which defines the range and its boundaries in between which the sound will gradually faded) of a sound sample. Here the sound sample in itself is the only time varying perceptible phenomenon. In contrast using moving sounds the time parameter is bound to spatial parameters as well and thus defines new notion of speed, sequence, space-loop, etc. This kind of composition goes even more in the direction of designing a complete sonic system that can, like in «Nutshell», be simply resolved by conceptually and perceptively linking the sample-time to the motion-time.



Knowing the playing time of sound samples, Marc Wathieu calculated the angular velocity, linking speed and key position with subdivision of the music's measures. Music's traditional notation-system of a rhythmic and tonal structure (horizontally and vertically) transposed to the three-dimensionality of space results in «Nutshell»; an analysis of musical measure in shape of a circular organization where orbits spatialise the paces $1/1$, $1/4$, $1/8$, $1/16$...

According to the thematic focus «numbers», the numeric reference of the project defines the metric and rhythmic measure as an inference to the notion of speed_m/s on the level of both the metric (m) as the temporal (s=t) structure. Whereas the project's title is referring to the elementary «shape of sounds» sonically emitting with same values in all directions, «Nutshell» visualization is underlined by an emission of circular shapes=trails, constituting a time-based mapping.

This text is an extract of "Liquid Space 360° Book" edited by Labau (2005).

<http://www.lab-au.com/lqs-book/>