

Majorana Eigenstates

Film Format	High Definition Video (Apple ProRes 422 (HQ) 1920 x 1080 25p)
Aspect Ratio	1:2.35 into native 16/9
Video, Audio	Colour, Stereo
Running Time	46 min

The film should be shown in a darkened room with an approximative surface of about 40 to 50 square meters. It is projected on a white screen of about 270 to 320 cm width. The screen width depends on the size of the room. The height of the screen is calculated using the film's aspect ratio of 1:2.35. The screen is made with a wooden or aluminium frame, covered with "High Contrast Matte White" fabric from www.dalite.com. This brand is widely distributed internationally. The screen is separated from the wall by a gap of about 10 cm.

The walls of the room should be painted in anthracite grey. Use RAL 7016 as a colour reference. Light coming from windows and doors should be blocked off.

The film is delivered as a 57 GB Quicktime file on a hard disk. It should be projected as a continuous loop.

It should be played from a Mac mini with the following specifications: 2 GHz Intel Core 2 Duo, 2 GB RAM, 7200 RPM Hard Disk with 80 GB space, Mac OS X 10.4.11 or later). Clock frequency, hard disk rotation speed and RAM are critical, that is, minimum specifications. With lower numbers the film will appear as jumpy.

The film should be projected with an HD projector with the specifications according to this guideline: 1080 lines, DLP chip, brightness of 4000 ANSI lumen or more, contrast ratio of 1:2000 or more. Brightness and contrast ratio are minimum specifications. With lower numbers the film can appear as dark and dull. A good projector, as example, is the Panasonic PT-D5700E.

The image should be framed through a matte box made of black cardboard or black metal with a window at the aspect ratio of 1:2.35, placed about 10 cm in front of the projector's lens. This is to black out the horizontal black bars that result from the difference between the aspect ratio of the film and the HD native aspect ratio of 16/9.

The sound should be diffused through a pair of good monitors, mounted on the walls to the sides of and above the screen. For optimal room performance, the sound should be balanced through a Behringer Ultra-Graph Pro GEQ3102 stereo equalizer, wired between the computer and the monitors.