Capturing Science Contest

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project title - “The Woven Quantum Image”

I am proposing to install an art exhibition to be included in the library exhibit. I have attached in the email images of all 7 artworks that would be included in my exhibition project. These seven pieces are all weavings that hang on the wall and vary in size (between 15 inches and 3 feet). I am curious about the location specifics of the exhibit for installation purposes, as well as the fact that the artworks would need to be safely secured because they are valuable and require special care.

Weaving is a process based in math, it is a system of numbers and grids (and was essentially the first computer) as it functions like the structure of 1s and 0s. All of these weavings are image based works centered around pictures generated from the quantum world. They were hand woven on a technology aided loom called a TC-1 jacquard loom. This art exhibition is a visual creative expression of multiple STEM concepts such as science (being represented through quantum world imagery), technology (with the use of a computer aided loom as a tool for art making), and math (which is grounded in the process of weaving and structures). This exhibition connects these 3 STEM concepts with the craft based process of weaving to create a unique union between the fields of science and art.

Some of the images I have sourced include photographs of the Higgs boson, the CERN lab, particle collisions, and atomic particle movements. I am drawn to these photographs for their simultaneous perfection and chaos. They are seemingly random, yet geometrically pure. They are visual representations of the systems governing the quantum world around us. The beauty of these quantum world photographs is divine, and these images translated or represented through art is an effective way to bring an awareness of the quantum world to a broad audience through the simple action of visual engagement with an object. The scale of human experience lies somewhere in between the quantum world and the cosmos, thus I constantly examine my relationship to these scientific duals of the vast cosmic macro and the tiny quantum micro. “The Woven Quantum Image” aims to offer people basic access to complex ideas through the use of visual language. It is my hope that art based in a fascination of science can create a dialogue between interdisciplinary fields and bring awareness to a diverse group of people regarding the depths of reality.