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ABSTRACT

Strange Quark Matter in the Turin Shroud

Ordinary matter is built of atoms which bears in its center a small nucleus. There in the interior are particles called baryons like protons and neutrons which in turn are made by the union of three quarks, mainly up and down quarks (just two flavors) if an extra different quark is added (strange quark)a three flavor system is formed (up, down and strange), and it is called Strange Quark Matter SQM. The possibility that some of these particles could have been captured by the molecules of the Shroud is studied. One of these molecules is 5-Hydroximethyl furfural which resulted from the oxidation and dehydration of the linen cellulose. This yellow-brownish chemical compound which is here proposed as the image chromophore, has a molecular weight of 126 amu and could have absorbed into his nuclei small SQM particles or "nuggets of H-strangelets having atomic weight of 5 amu, enhancing its molecular weight to 131 amu accounting in this way for the controversial 131 line recorded in a Shroud´s mass spectrum. It is proposed here that a Quark-Gluon Plasma was created in the interior of the Sacred Heart of Jesus when he resurrected that in turn when released in all directions, formed protons neutrons and SQM and electrons as well.