**Abstract template of the conference "Physical chemistry in Russia and beyond: from quantum chemistry to experiment"**

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**Introduction**

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**Experimental**

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**Results and Discussion**

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*Fig. 1. Artistic interpretation of the phenomenon of the quantum Cheshire Сat.*

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*Table 1. Dilution of alcohol with water [2].*

|  |  |
| --- | --- |
| **Diluted alcohol concentration, %** | **Initial alcohol concentration, %** |
| **95** | **90** | **85** | **80** | **75** | **70** |
| 90 | 0.055 |  |  |  |  |  |
| 85 | 0.118 | 0.059 |  |  |  |  |
| 80 | 0.187 | 0.125 | 0.062 |  |  |  |
| 75 | 0.267 | 0.200 | 0.133 | 0.071 |  |  |
| 70 | 0.357 | 0.286 | 0.214 | 0.154 | 0.077 |  |
| 65 | 0.462 | 0.385 | 0.308 | 0.250 | 0.167 | 0.083 |
| 60 | 0.583 | 0.500 | 0.412 | 0.364 | 0.273 | 0.182 |
| 55 | 0.727 | 0.636 | 0.545 | 0.500 | 0.400 | 0.300 |
| 50 | 0.900 | 0.800 | 0.700 | 0.667 | 0.556 | 0.444 |
| 45 | 1.111 | 1.000 | 0.899 | 0.875 | 0.750 | 0.625 |
| 40 | 1.375 | 1.250 | 1.123 | 0.143 | 1.000 | 0.857 |

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2. T. Shimura, M. Komori, H. Iwahara // Solid State Ionics. 1996. V. 86. P. 685–689.