Seven years ago, the Japanese artist Mariko Mori dreamed about people seated at the foot of a waterfall. “They were praying in anticipation of something,” she said in a statement. “Then, suddenly, a golden ring appeared over the waterfall. People cried out at it, like the Mayans who witnessed an eclipse of the sun.”

Now, Ms. Mori is realizing this vision as part of the Celebra (Celebrate) Cultural Program of the 2016 Olympic and Paralympic Games in Rio de Janeiro.

The permanent installation, “Ring: One with Nature” — to have its premiere Aug. 2, before the opening ceremony — is part of an effort by the artist’s nonprofit Faou Foundation to place site-specific works on six continents. (Her 2011 installation “Sun Pillar” is on Miyako Island in Japan.)

The sculpture — which will change color as the sun hits it and is meant to represent a sixth Olympic ring — is to be situated atop the Véu da Noiva waterfall. “I wanted to create a symbol of oneness,” Ms. Mori said, “and completeness and eternity.”