



## **THROUGH THE WORMHOLE WITH MORGAN FREEMAN**

### **Episode Guide (8 x :60)**

**Series World Premiere: Wednesday, June 9 at 10 PM (ET)**

**New Premieres Every Wednesday at 10 PM (ET)**

#### ***Is there a Creator?***

**Series World Premiere: Wednesday, June 9 at 10 PM (ET)**

In the premiere episode, **THROUGH THE WORMHOLE WITH MORGAN FREEMAN** considers one of the most controversial and philosophical ideas of our time: “Is there a Creator?” Did our universe just come into being by random chance, or was it created by a God who nurtures and sustains all life? The latest science is showing that the four forces governing our universe are phenomenally finely tuned, so finely that it has led many to the conclusion that someone, or something, must have calibrated them. While skeptics hold that these findings are neither conclusive nor evidence of a divine creator, some cutting-edge physicists are already positing who this God is.

#### ***The Riddle of Black Holes***

**World Premiere: Wednesday, June 16 at 10 PM (ET)**

Black holes are the most powerful objects in the universe. Nothing, not even light, can escape its gravitational pull. Astronomers now think there are billions of them out in the cosmos, swallowing up planets, even entire stars in violent feeding frenzies. New theoretical research into the twisted reality of black holes suggests that three-dimensional space could be an illusion. That reality actually takes place on a two-dimensional hologram at the edge of the universe.

#### ***Is Time Travel Possible?***

**World Premiere: Wednesday, June 23 at 10 PM (ET)**

Einstein's world-shaking Theory of Relativity says that time travel is perfectly possible—if you're going forward in time. Finding a way to travel backward requires exceeding the speed of light, which so far seems impossible. But now, strange-but-true phenomena such as quantum nonlocality (where particles instantly teleport across vast distances) may give us a way to make the dream of traveling back and forth through time a reality.

#### ***What Happened Before the Beginning?***

**World Premiere: Wednesday, June 30 at 10 PM (ET)**

Every cosmologist and astronomer agrees the universe is 13.7 billion years old. Using cutting-edge technology, scientists are now able to take a snapshot of the universe a mere heartbeat

after its birth. Armed with hypersensitive satellites, astronomers look back in time to the very moment of creation, when all the matter in the universe exploded into existence. It is here that we uncover an unsolved mystery as old as time. If the universe was born, where did it come from?

### ***How Did We Get Here?***

**World Premiere: Wednesday, July 7 at 10 PM (ET)**

Everywhere we look...in the most hospitable of environments and in the most extreme...we find life. On Earth, life exists everywhere. Yet we have only ever found life on our planet. How did the stuff of stars come together to create life as we know it? What do we really mean by "life"? And will unlocking this mystery help us find life elsewhere?

### ***Are We Alone?***

**World Premiere: Wednesday, July 14 at 10 PM (ET)**

Aliens almost certainly do exist. So why haven't we yet met E.T.? It turns out we're only just developing instruments powerful enough to scan for them, and science sophisticated enough to know where to look. As a result, the race is on to find the first intelligent aliens. But what would they look like, and how would they interact with us if we met?

### ***What Are We Really Made Of?***

**World Premiere: Wednesday, July 21 at 10 PM (ET)**

Our understanding of the universe and the nature of reality itself is on the verge of a seismic shift. The goal of the Large Hadron Collider at CERN is nothing less than recreating the first instants of creation, when the universe was unimaginably hot and long-extinct forms of matter sizzled and cooled into stars, planets, and ultimately, humans. What we find could validate our long-held theories about how the world works and what we are made of—or, all of our notions about the essence of what is real will fall apart.

### ***Beyond the Darkness***

**World Premiere: Wednesday, July 28 at 10 PM (ET)**

Thirty years ago, scientists first realized that some unknown dark substance was affecting the way galaxies moved. Today, they think there must be five times as much dark matter as regular matter out there. But they have no idea what it is—only that it's not made of atoms, or any other matter we are familiar with. And dark matter is not the only strange substance in the universe— newly discovered force, called dark energy, seems to be pushing apart the very fabric of the cosmos.

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