

**From:** Robert Kuhn <[REDACTED]>

**To:** "jeffrey E." <jeevacation@gmail.com>

**Subject:** Re: Revised Episodes - Radical Breakthroughs - Closer To Truth - Kuhn

**Date:** Sun, 21 Jan 2018 09:02:52 +0000

**Attachments:** Radical\_Breakthroughs\_-\_Episoides\_Revision\_-\_2018.1.21.docx

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Probative. Provocative. That's what we want.

I've incorporated each of your probative-provocative phrases into the existing structure (see below and attached, same). All fit naturally except for probability - so I enlarged the Power Laws episode to include probability (the episode was anyway a bit thin). I think this works well, given the new unifying theme of "prediction" - How do Probability and Power Laws Predict?" Now a stronger episode.

We still need to cut two episodes, reduce the 15 to 13 (a full 'season' is 13). If you have strong feelings which 2 to cut - or a gut instinct - please advise. [REDACTED] happy with any 13 of the 15.

Alternatively, I can make the final cut, but I need one decision from you - *Do you want to include the episode dedicated to your evolutionary dynamics program at Harvard?*

Finally, anything else to add?

Exciting stuff.

Robert

## **RADICAL BREAKTHROUGHS - Episodes Revision – 2018.01.21**

Closer To Truth Episodes – Revised Topics & Titles: Now begins with series intro/overview; it will include the most compelling, startling ideas of the series, both as a tease and in exemplifying the meaning of Radical Breakthroughs. This will be the episode we will promote and it will be the episode reviewed. Each episode seeks to probe the nature of reality and/or human sentience. (Episode topics and content need further development and will be modified during production.) CUT Two (2) Episodes.

### **1. What are Radical Breakthroughs?**

How is "current belief" challenged in science? Does a challenge or change in physics differ from, say, a challenge or change in psychology? How do "paradigms" work? Is science ever relative, conditioned by conventional wisdom or the prevailing culture? We examine challenges to 'current belief'.

### **2. How is Mathematics Truth?**

Math relies on truth. Overview - excitement, scope, meaning & foundations of math.

### **3. What are Breakthroughs in Mathematics?**

Several math fields/sub-fields – fascinating, surprising, radical (comprehensible)

### **4. Why the 'Unreasonable Effectiveness of Mathematics'?**

How math explains physics, chemistry, biology, psychology, economics, sociology

### **5. How do Probability and Power Laws Predict?**

Why probability not intuitive? Why power laws work.

**6. Can Mathematics Explain Biology?**

Now includes 'replicability crisis' (in addition to what's in the preproduction book)

**7. Why are Plants Strange?**

**8. What is 'Strong Emergence'?**

Can all, ultimately, be explained in terms of physics? Or are there higher-level laws that are in principle impossible to predict, even from complete lower-level information?

**9. Why is Deception Common?**

Biology relies on deception

**10. Can Mathematics Explain Evolution?**

Evolutionary Dynamics - Epstein program at Harvard. Not my expertise, but could well fit CTT in general and Radical Breakthroughs in particular. Would you like to include?

**11. What are 'Predictive Brains' & 'Extended Minds'?**

How do brains represent world? How do brains rely on world they represent? 'Enlarging the mind' affects being human? Do we talk to ourselves using an encrypted signal?

**12. Can 'Integrated Information Theory' Explain Consciousness?**

Quantifying and explaining consciousness (Giulio Tononi, Un of Wisconsin-Madison), plus supporters and critics. Radical, controversial, science-based theory.

**13. Does 'Top-Down Causation' Make Sense?**

How does our mental life affect our physical world? By what mechanisms? When we have self-organizing systems, can explanations flow from the complex to the simple?

**14. Can Music Probe Mentality?** (cognition / emotion)

How music gives insight into the brain that produces it

**15. What do Dreams Reveal?**

Do we dream all day?

On Jan 21, 2018, at 1:52 AM, jeffrey E. <[jeevacation@gmail.com](mailto:jeevacation@gmail.com)> wrote:

do we dream all day ,  
can we use music as an insight into the brain that produced it  
mathematics relies on truth , biology relies on deception  
probability and why it is not intuitive  
do we talk to ourselves using an encrypted signal

On Sat, Jan 20, 2018 at 10:34 AM, Robert Kuhn <[REDACTED]> wrote:  
Appreciate. Happy Birthday!

On Jan 20, 2018, at 6:18 PM, jeffrey E. <[jeevacation@gmail.com](mailto:jeevacation@gmail.com)> wrote:

i will review, , this week has been hectic , today birthday sorry for delay

On Sat, Jan 20, 2018 at 4:07 AM, Robert Kuhn <[REDACTED]> wrote:  
Jeffrey:

Hi from Beijing. Our team is anxious to begin compiling links to videos of all the suggested interviewees, but prior [REDACTED] like you to decide which 13 shows to do (out of the 15) in the new structure.

We can Skype (short) so you can select the 13 shows? East coast mornings, my nights.

Alternatively, you can just tell me which 2 of the 15 episodes to cut - again attached and below (same) - and we'll begin getting the links.

All are enthusiastic to go into production.

Warm regards,

Robert

#### RADICAL BREAKTHROUGHS - Episodes Revision – 2018.01.06

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##### 1. What are Radical Breakthroughs?

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Overview of math - excitement, scope, meaning and foundations of mathematics.

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How do our brains represent the world? How much do they rely on the world they represent? How might 'enlarging the mind' expand what it means to be human?

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Quantifying and explaining consciousness (Giulio Tononi, Un of Wisconsin-Madison), plus supporters and critics. Radical, controversial, science-based theory.

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14. Can Music Probe Mentality? (cognition / emotion)

15. What do Dreams Reveal?

Begin forwarded message:

From: Robert Lawrence Kuhn <[REDACTED]>

Subject: Revised Episodes - Radical Breakthroughs - Closer To Truth - Kuhn

Date: January 8, 2018 at 5:58:36 AM GMT+8

To: "jeffrey E." <jeevacation@gmail.com>

Jeffrey:

Since our productive call, I've given a good deal of thought to the series and the 13 episodes. I now have 15 episodes, adding several new ones (while cutting several old ones), using the test of 'breakthrough'.

As we discussed, the first thing we must do is to finalize the 13 episodes.

Once we finalize the 13 episodes, then our CTT team will go through and include links to every expert in every episode (as you requested), prioritizing videos (Youtube, etc). This will be part of the revised, complete Radical Breakthroughs preproduction book.

Attached are my episode recommendations. As you see, I've added a series intro/overview; it will include the most compelling, startling ideas of the whole series, both as a tease and in exemplifying the deep meaning of Radical Breakthroughs. This will be the episode we will promote and it will be the episode reviewed.

There are 15 episodes on the list, which means that we need to cut two. For each of the episodes I put a one or two line description - except for the episodes that you suggested. Note that I added an episode on your Evolutionary Dynamics program at Harvard, if you want to include.

I've rewritten the title of each episode as a question, closer to the actual format (though they will still evolve as we get into details).

So we need to get to 13 episodes by cutting 2 of the 15, and you need to sign off on the 13. Then we will go to work getting all the links.

If you want a short Skype to discuss, ■ 13 hours ahead in China, so your mornings (mystery nights) best.

Please confirm receipt.

Looking forward and warm regards,

Robert