

1					2011		2011
2							2013
3		B		R			2016
4		B1					2002
5							1960
6		B1					2002
7							2012
8				()	2014		2014
9		20		:20	2012		2010
10							2015
11							2013
12		I					2010
13		I					2014
14					/		1962 /1978
15							2009 6
16					/		1978 /2009
17			andrew fraknoi, david morrison, sidney wolff	astronomy	1	Rice university	2016
18					/		2008 /2019
19							2007
20							2018
21					2014		2014
22		I			/		2017 /2019
23		I			/		2017 /2019