10 <sup>12</sup> -	$M_{\rm L}$ =0.5 $M_{\rm w}$ =0.6	-	$M_{L}=0.3 M_{W}=0.6$	$M_{L}=0.6 M_{W}=0.9$	$M_{L}=0.7 M_{W}=0.7$	$M_{L}=0.6 M_{W}=0.7$	$M_{L}=1.1 M_{W}=1.0$	$M_{L}=0.4 M_{W}=0.7$
10 <sup>10</sup> -	f <sub>c</sub> =60.9 Hz		f <sub>c</sub> =61.1 Hz	f <sub>c</sub> =43.3 Hz	f <sub>c</sub> =58.9 Hz	f <sub>c</sub> =54.2 Hz	f <sub>c</sub> =49.3 Hz	f <sub>c</sub> =44.3 Hz
	2018156105500	2018156132827	2018157010141	2018157013858	2018157121700	2018158072013	2018158204112	2018159000959
10 <sup>12</sup> -	$M_{L}=0.3 M_{W}=0.5$ $f_{c}=61.0 Hz$	$M_{L}=0.8 M_{W}=0.9$ $f_{c}=61.2 \text{ Hz}$	$M_L=0.8 M_w=0.9$ $f_c=46.5 Hz$	$M_L=0.5 M_w=0.7$ $f_c=58.4 \text{ Hz}$	$M_{L}=0.6 M_{W}=0.7$ $f_{c}=66.8 Hz$	$M_{L}=0.5 M_{W}=0.6$ $f_{c}=57.4 \text{ Hz}$	$M_{L}=1.0~M_{W}=1.4$ $f_{c}=39.9~Hz$	$M_L=0.9 M_w=1.0$ $f_c=41.6 Hz$
10 <sup>10</sup> -							(-35512	
	2018159011231	2018159035257	2018159044000	2018159120046	2018159152310	2018160051518	2018160054115	2018160102510
10 <sup>12</sup> -	$M_{L}=0.7 M_{W}=0.9$ $f_{c}=54.2 Hz$	$M_L=0.4 M_w=0.4$ $f_c=73.0 Hz$	$M_L=0.3 M_w=0.5$ $f_c=60.2 Hz$	$M_L=0.6 M_W=0.9$ $f_c=45.3 Hz$	$M_L=0.6 M_w=0.7$ $f_c=66.2 Hz$	$M_L=0.8 M_w=0.9$ $f_c=59.7 Hz$	$M_L=0.2 M_w=0.3$ $f_c=83.3 Hz$	- M <sub>L</sub> =1.4 M <sub>w</sub> =1.6
10 <sup>10</sup> -					-		-	-
	2018160135358	2018160181943	2018160211026	2018161004449	2018161102425	2018161172544	2018162012825	2018162052548
10 <sup>12</sup> -	$M_{L}$ =0.6 $M_{w}$ =0.6 $f_{c}$ =71.8 Hz	$M_L=0.6 M_w=0.6$ $f_c=60.7 Hz$	$M_L=0.7 M_w=0.7$ $f_c=61.8 Hz$		$M_L=0.9 M_w=1.1$ $f_c=43.9 \text{ Hz}$	$M_L=0.7 M_w=0.8$ $f_c=58.2 Hz$	$M_L=0.9 M_w=1.1$ $f_c=44.9 \text{ Hz}$	$M_L=0.7 M_w=0.8$ $f_c=51.5 Hz$
10 <sup>10</sup> -	-			•	-			
	2018162102701	2018162103517	2018162124708	2018162134139	2018162195803	2018162224749	2018163001121	2018163031320
10 <sup>12</sup> -		$M_L=0.5 M_w=0.7$ $f_c=48.5 Hz$	$M_L=1.1 M_W=1.3$ $f_c=37.4 Hz$	$M_L=1.0 M_W=1.2$ $f_c=35.9 \text{ Hz}$	$M_L=0.7 M_w=0.7$ $f_c=64.0 Hz$	$M_L=0.5 M_w=0.6$ $f_c=53.7 Hz$	$M_L=0.2 M_w=0.4$ $f_c=64.2 Hz$	$M_L = 0.4 M_w = 0.6$ $f_c = 69.3 \text{ Hz}$
10 <sup>10</sup> -					-	-	-	
10 <sup>12</sup> -	2018163115829	2018163132124	2018164031000	2018165002042	2018165152357	2018165200500	2018166021841	2018166111647
	$M_{L}=1.0 M_{W}=1.1$ $f_{c}=54.5 Hz$	$M_L = 0.4 M_W = 0.5$ $f_c = 55.1 \text{ Hz}$	$M_L = 0.6 M_w = 0.7$ $f_c = 43.5 \text{ Hz}$	$M_{L}=0.4 M_{W}=0.6$ $f_{c}=65.8 Hz$	$M_L = 0.6 M_w = 0.6$ $f_c = 60.6 \text{ Hz}$	$M_L$ =0.4 $M_w$ =0.3 $f_c$ =71.5 Hz	$M_L$ =0.4 $M_w$ =0.5 $f_c$ =58.8 Hz	$M_L = 0.8 M_W = 1.0$ $f_c = 38.6 \text{ Hz}$
10 <sup>10</sup> -	2018168094946	2018168112428	2018169024000	2018169033430	2018169042045	2018169213726	2018169230658	2018170012100
10 <sup>12</sup> -	$M_{\rm L}$ =0.6 $M_{\rm w}$ =0.7	$M_{L}=0.4 M_{W}=0.6$	-	-	$M_{L}=0.8 M_{W}=0.9$	$M_{L}=0.7 M_{W}=0.8$	$M_{L}=0.7 M_{W}=0.7$	$M_{L}=0.5 M_{W}=0.6$
10 <sup>10</sup> -	f <sub>c</sub> =60.7 Hz	f <sub>c</sub> =41.6 Hz			f <sub>c</sub> =54.4 Hz	f <sub>c</sub> =44.3 Hz	f <sub>c</sub> =45.1 Hz	f <sub>c</sub> =51.2 Hz
	2018170013500	2018170022530	2018170070706	2018170141444	2018170145100	2018170191546	2018170200105	2018170210141
10 <sup>12</sup> -	$M_{\rm L} = 1.3  M_{\rm W} = 1.5$	$M_L = 0.8 M_W = 0.8$ $f_c = 41.0 \text{ Hz}$	$M_L = 0.8 M_W = 0.9$ $f_c = 38.6 \text{ Hz}$	-	$M_{L}=0.7 M_{W}=0.8$ $f_{c}=58.2 Hz$	$M_{L}=0.8 M_{W}=0.8$ $f_{c}=47.7 Hz$	$M_{L}=0.6 M_{W}=0.6$ $f_{c}=66.8 Hz$	$M_L = 0.6 M_w = 0.6$ $f_c = 64.9 \text{ Hz}$
10 <sup>10</sup> -	297.0112		7(2-30.0 112	_			1,2-00.0112	
	2018171001230	2018171003700	2018171005900	2018171034700	2018171100309	2018171100500	2018171101020	2018171113245
10 <sup>12</sup> -		$M_L=0.8 M_W=0.9$ $f_c=52.3 Hz$	$M_L=1.1 M_w=1.3$ $f_c=35.8 Hz$	1.6 M <sub>w</sub> =1.8 7.037.6 Hz	$M_L=0.4 M_w=0.6$ $f_c=57.6 Hz$	$M_L = 0.8 M_w = 0.9$ $f_c = 35.2 \text{ Hz}$	$M_{L}$ =0.5 $M_{w}$ =0.6 $f_{c}$ =51.9 Hz	
10 <sup>10</sup> -	•••		-	-				-
	2018171120032	2018171170704	2018171173814	2018171232614	2018171233929	2018172001100	2018172010600	2018172041700
10 <sup>12</sup> -	$M_{L}$ =0.6 $M_{w}$ =0.6 $f_{c}$ =58.3 Hz	$M_L=0.8 M_W=0.9$ $f_c=56.3 \text{ Hz}$	$M_L=1.2 M_W=1.5$	$M_L=0.8 M_w=1.0$ $f_c=39.6 \text{ Hz}$	$M_L=0.8 M_w=0.9$ $f_c=48.5 Hz$	$M_L = 0.7 M_w = 0.8$ $f_c = 54.3 \text{ Hz}$	$M_L = 0.4 M_w = 0.5$ $f_c = 64.5 \text{ Hz}$	$M_L=1.0 M_w=1.3$ $f_c=28.7 Hz$
10 <sup>10</sup> -			-			-	-	-
	2018172070230	2018172090030	2018172175518	2018172180735	2018172183326	2018172230708	2018172234909	2018173042858
10 <sup>12</sup> -	$M_{L}$ =0.9 $M_{W}$ =0.9 $f_{c}$ =44.1 Hz	$M_L$ =0.7 $M_w$ =0.8 $f_c$ =43.9 Hz	$M_L$ =0.9 $M_w$ =1.0 $f_c$ =53.0 Hz	$M_L=0.5 M_w=0.5$ $f_c=53.1 Hz$	$M_L=1.0 M_W=1.1$ $f_c=39.5 Hz$	$M_L=1.1 M_W=1.3$ $f_c=32.7 Hz$	$M_L$ =0.0 $M_w$ =0.6 $f_c$ =51.8 Hz	$M_L = 0.6 M_w = 0.7$ $f_c = 49.1 \text{ Hz}$
10 <sup>10</sup> -	20101720425	2010170075	20101701011	20101721	2010172-7-	20101701011	2010170101	201017021405
10 <sup>12</sup> -	2018173043508 	2018173072237 	2018173130130 	2018173142304 	2018173151655 M <sub>L</sub> =0.7 M <sub>w</sub> =0.8	2018173181236 	2018173191258 M <sub>L</sub> =0.6 M <sub>w</sub> =0.6	2018173214953 
	$f_{c}$ =38.7 Hz	$f_c = 50.7 \text{ Hz}$	$f_c = 34.6 \text{ Hz}$	f <sub>c</sub> =42.5 Hz	$f_{c}=61.5 \text{ Hz}$	$M_{\rm L} = 1.1 M_{\rm W} = 1.3 f_{\rm c} = 42.0 \text{ Hz}$	$f_{c}$ =60.8 Hz	$m_{\rm L} = 0.5  M_{\rm W} = 0.6  {\rm f_c} = 59.4  {\rm Hz}$
10 <sup>10</sup> -	2018173220003	2018174040400	2018174043300	2018174062000	2018174064100	2018174085934	2018174131934	2018174154112
10 <sup>12</sup> -	$M_{L}=1.1 M_{W}=1.2$	-	$M_{L}=0.4 M_{W}=0.5$	$M_{L}=0.8 M_{W}=1.0$	$M_{L}=0.5 M_{W}=0.5$	$M_{L}=0.8 M_{W}=0.9$	$M_{L}=0.5 M_{W}=0.7$	$M_{L}=0.7 M_{W}=0.7$
ਵਿ 10 <sup>10</sup> -	f <sub>c</sub> =34.7 Hz		f <sub>c</sub> =57.8 Hz	f <sub>c</sub> =34.0 Hz	f <sub>c</sub> =55.8 Hz	f <sub>c</sub> =53.3 Hz	f <sub>c</sub> =61.0 Hz	f <sub>c</sub> =46.1 Hz
Ž	2018175062422	2018175071713	2018175132759	2018176001813	2018176155852	2018176170554	2018176210520	2018177104730
	$M_{L}$ =0.5 $M_{w}$ =0.6 $f_{c}$ =66.1 Hz	$M_L=0.9 M_w=1.2$ $f_c=41.7 Hz$	$M_L = 0.8 M_w = 1.0$ $f_c = 47.1 \text{ Hz}$	$M_L=1.2 M_w=1.4$ $f_c=38.2 \text{ Hz}$	$M_L=0.9 M_w=1.0$ $f_c=38.8 Hz$		M <sub>L</sub> =1.5 M <sub>w</sub> =1.6	$M_L=0.6 M_w=0.8$ $f_c=36.1 Hz$
ent spe 10 <sup>10</sup> -							-	
source displacement $10^{10}$	2018178152609	2018178222942	2018179053245	2018179233042	2018180013150	2018180040100	2018180094138	2018181040940
rce dis	M <sub>L</sub> =1.4 M <sub>W</sub> =1.6	$M_L=0.8 M_w=1.1$ $f_c=38.3 \text{ Hz}$	$M_L=0.8 M_w=0.9$ $f_c=48.2 Hz$	$M_{L}=1.0 M_{W}=1.2$ $f_{c}=39.4 Hz$	$M_L=1.1 M_w=1.3$ $f_c=33.6 \text{ Hz}$	$M_L = 0.8 M_w = 1.0$ $f_C = 38.4 \text{ Hz}$	$M_L=0.9 M_w=1.0$ $f_c=48.4 Hz$	$M_L=0.7 M_w=0.9$ $f_c=40.6 Hz$
0S 10 <sup>10</sup> -	-				-		-	-
	2018181065239	2018181192300	2018182124340	2018182203248	2018182212250	2018182233301	2018183155952	2018183202531
10 <sup>12</sup> -	$M_L=1.0 M_W=1.2$ $f_c=32.5 Hz$	$M_L=0.6 M_w=0.7$ $f_c=45.7 Hz$	$M_L=1.1 M_W=1.2$ $f_c=38.4 Hz$	$M_L=1.2 M_w=1.4$ $f_c=31.4 Hz$	$M_L=0.9 M_w=1.1$ $f_c=39.6 \text{ Hz}$	$M_L=1.1 M_w=1.2$ $f_c=37.6 Hz$	$M_L=1.1 M_w=1.0$ $f_c=44.2 Hz$	$M_L=0.7 M_w=0.9$ $f_c=46.1 \text{ Hz}$
10 <sup>10</sup> -	- Walder		-	-	-	-	-	-
10 <sup>12</sup> -	2018183215029	2018184003003	2018184201046	2018184202906	2018185001326	2018185014623	2018185034551	2018185120950
	$M_L = 0.7 M_w = 0.9$ $f_c = 46.3 \text{ Hz}$	$M_{L}=0.7 \ M_{w}=0.7 \ f_{c}=48.8 \ Hz$	$M_{L}=1.4 M_{W}=1.6$		$M_L = 0.8 M_w = 0.9$ $f_c = 48.5 \text{ Hz}$	$M_{L}$ =0.9 $M_{w}$ =1.0 $f_{c}$ =43.1 Hz	$M_L = 0.5 M_w = 0.6$ $f_c = 52.5 \text{ Hz}$	$M_L=0.7 M_w=0.7$ $f_c=46.8 Hz$
10 <sup>10</sup> -	2018185145450	2018185155423	2018186070100	2018186092109	2018186115357	2018186131522	2018186202646	2018186215007
10 <sup>12</sup> -	$M_{\rm L} = 0.6 \ M_{\rm W} = 0.7$	$M_{L}=0.6 M_{W}=0.6$	$M_{\rm L}=1.3~M_{\rm W}=1.6$	$M_{\rm L} = 0.8  M_{\rm W} = 1.0$	$M_{L}=0.6 M_{W}=0.7$	M <sub>L</sub> =1.4 M <sub>w</sub> =1.5	$M_{L}=1.0 M_{W}=1.2$	$M_{L}=0.7 M_{W}=0.8$
10 <sup>10</sup> -	f <sub>c</sub> =48.3 Hz	f <sub>c</sub> =56.0 Hz	=27.9 Hz	f <sub>c</sub> =36.3 Hz	f <sub>c</sub> =37.9 Hz	-33-2-Hz	f <sub>c</sub> =40.2 Hz	f <sub>c</sub> =52.7 Hz
	2018187034808	2018187062657	2018187084836	2018188142051	2018188161324	2018188173124	2018188175428	2018188193122
10 <sup>12</sup> -	$M_{L}$ =0.7 $M_{w}$ =0.8 $f_{c}$ =45.6 Hz	$M_L=0.8 M_w=1.0$ $f_c=36.5 Hz$	$M_L=0.7 M_w=0.9$ $f_c=35.1 Hz$	$M_L=0.6 M_w=0.8$ $f_c=57.8 \text{ Hz}$	$M_{L}=0.7 M_{w}=0.7$ $f_{c}=54.9 Hz$	$M_{L}$ =0.6 $M_{W}$ =0.7 $f_{c}$ =50.1 Hz	$M_L = 0.4 M_w = 0.6$ $f_c = 56.0 \text{ Hz}$	$M_L = 0.5 M_w = 0.9$ $f_c = 42.4 \text{ Hz}$
10 <sup>10</sup> -	-					-		
	2018188202905	2018188214438	2018188214700	2018188214802	2018189060720	2018189070845	2018189095118	2018189132738
10 <sup>12</sup> -	$M_{L}$ =0.8 $M_{W}$ =0.9 $f_{c}$ =41.0 Hz	$M_L=0.8 M_w=0.9$ $f_c=43.7 Hz$	$M_L=0.6 M_w=0.8$ $f_c=42.6 Hz$	$M_L = 0.8 M_W = 1.0$ $f_c = 39.2 \text{ Hz}$	$M_L=0.6 M_w=0.8$ $f_c=52.6 Hz$	$f_c = 1.8 \text{ Hz}$	$M_L=0.5 M_w=0.5$ $f_c=54.7 Hz$	$M_L=0.6 M_w=0.7$ $f_c=49.4 Hz$
10 <sup>10</sup> -	- Control of the cont		-					
	2018189132728	2018189142028	2018189152317	2018189160854	2018189163251	2018189173537	2018189195043	2018190005253
10 <sup>12</sup> -	$M_{L}=1.1 M_{W}=1.3$ $f_{c}=43.2 Hz$	$M_L = 0.3 M_w = 0.5$ $f_c = 52.6 \text{ Hz}$	$M_L = 0.8 M_w = 0.9$ $f_c = 45.8 \text{ Hz}$	M <sub>L</sub> =1.3 M <sub>W</sub> =1.6 =29.2 Hz	$M_L = 0.5 M_w = 0.5$ $f_c = 62.9 \text{ Hz}$	$M_{\rm L}$ =0.6 $M_{\rm w}$ =0.7 $f_{\rm c}$ =50.0 Hz	M <sub>L</sub> =1.3 M <sub>w</sub> =1.5 €=27 1 Hz	$M_L = 0.8 M_W = 0.9$ $f_c = 44.8 \text{ Hz}$
10 <sup>10</sup> -	2018190020811	2018190025747	2018190155046	2018193142500	2018193204529	2018194085018	2018194133411	2018195011432
10 <sup>12</sup> -	$M_{\rm L} = 0.6 \ M_{\rm W} = 0.6$	$M_{L}=0.9 M_{W}=1.1$	$M_{L}=0.5 M_{W}=0.5$	$M_{L}=0.6 M_{w}=0.7$	$M_{L}=0.8 M_{W}=0.9$	$M_{L}=0.8 M_{W}=1.0$	-	$M_{L}=0.7 M_{W}=0.9$
10 <sup>10</sup> -	f <sub>c</sub> =57.2 Hz	f <sub>c</sub> =33.0 Hz	f <sub>c</sub> =65.5 Hz	f <sub>c</sub> =44.9 Hz	f <sub>c</sub> =41.2 Hz	f <sub>c</sub> =37.8 Hz		f <sub>c</sub> =51.5 Hz
	2018195074501	2018195123640	2018195172331	2018195195343	2018196003937	2018196010738	2018196071020	2018196133941
10 <sup>12</sup> -	$M_{L}$ =0.7 $M_{w}$ =0.7 $f_{c}$ =61.1 Hz	$M_L = 0.7 M_w = 0.9$ $f_c = 48.8 \text{ Hz}$	$M_{L}=0.6 M_{W}=0.5$ $f_{c}=63.4 Hz$	$M_L=0.6 M_w=0.7$ $f_c=50.7 Hz$	$f_c = 7.2 \text{ Hz}$	$M_{L}=0.9 \ M_{W}=1.1$ $f_{c}=43.5 \ Hz$	$M_{L}=0.6 M_{W}=0.7$ $f_{c}=57.3 Hz$	
10 <sup>10</sup> -						- Control of the cont		-
	2018196200450	2018197015541	2018197070436	2018197091659	2018197172535	2018197183626	2018199080816	2018199104200
10 <sup>12</sup> -	$M_{L}$ =0.9 $M_{W}$ =1.2 $f_{c}$ =36.6 Hz	$M_L=0.7 M_w=0.8$ $f_c=64.3 Hz$	$M_L=0.5 M_w=0.5$ $f_c=60.0 Hz$	$M_{L}=0.5 M_{W}=0.5$ $f_{c}=60.4 \text{ Hz}$	$M_L=1.2 M_w=1.5$ f=26.9 Hz	$M_L = 0.5 M_W = 0.7$ $f_C = 57.4 \text{ Hz}$	$M_L=0.5 M_w=0.6$ $f_c=69.1 Hz$	$M_L=1.0 M_w=1.2$ $f_c=39.5 Hz$
10 <sup>10</sup> -	See		-	-	-			-
L	2018199170820	2018199170914	2018199194117	2018199204703	2018199224500	2018200015608	2018200040208	2018200082657
10 <sup>12</sup> -	$M_{L}=1.1 M_{W}=1.2$ $f_{c}=37.2 Hz$	-	$M_L = 0.9 M_W = 1.0$ $f_c = 43.7 \text{ Hz}$	M <sub>L</sub> =1.2 M <sub>w</sub> =1.5	M <sub>L</sub> =1.5 M <sub>w</sub> =1.6 28.5 Hz	$M_L$ =0.6 $M_w$ =0.6 $f_c$ =64.0 Hz	$M_L = 0.7 M_W = 1.0$ $f_c = 38.5 \text{ Hz}$	$M_L = 0.6 M_w = 0.7$ $f_c = 58.7 \text{ Hz}$
10 <sup>10</sup> -	- Sanda	-	-				-	-
10 <sup>12</sup> -	2018200100833	2018200100919	2018200102006	2018200105407	2018200105452	2018200105703	2018200134612	2018200143037
	$M_{L}$ =0.4 $M_{w}$ =0.6 $f_{c}$ =47.1 Hz	$M_L = 0.8 M_W = 0.9$ $f_c = 52.1 \text{ Hz}$		$M_{L}=0.6 M_{W}=0.6$ $f_{c}=44.4 Hz$	$M_L = 0.7 M_W = 0.8$ $f_c = 44.6 \text{ Hz}$	$M_L=1.2 \ M_w=1.2 \ f_c=47.5 \ Hz$	$M_L = 0.5 M_w = 0.6$ $f_c = 54.5 \text{ Hz}$	$M_L = 0.5 M_w = 0.6$ $f_c = 56.0 \text{ Hz}$
10 <sup>10</sup> -	2018200170651	2018200191849	2018201073346	2018201152715	2018202112855	2018202134535	2018202144515	2018202222748
10 <sup>12</sup> -	$M_{\rm L} = 0.5 \ M_{\rm w} = 0.4$	$M_{L}=0.5 M_{W}=0.6$		$M_{L}=0.6 M_{W}=0.6$	$M_{L}=0.7 M_{W}=0.8$	$M_{L}=0.5 M_{W}=0.6$	$M_{L}=0.7 M_{W}=0.6$	$M_{L}=1.0 M_{W}=1.2$
10 <sup>10</sup> -	$f_{c} = 64.8 \text{ Hz}$	f <sub>c</sub> =63.9 Hz		$f_c = 56.8 \text{ Hz}$	$f_c = 50.8 \text{ Hz}$	f <sub>c</sub> =56.9 Hz	f <sub>c</sub> =62.2 Hz	$f_c = 45.7 \text{ Hz}$
10 <sub>τ0</sub> -	2018202225701	2018202234429	2018203030928	2018203081713	2018203090059	2018203113243	2018203124722	2018203171420
10 <sup>12</sup> -	$M_{\rm L} = 0.5 \ M_{\rm W} = 0.6$	$M_{L}=1.1 M_{W}=1.2$	$M_{L}=0.7 M_{W}=0.8$	$M_{L}=0.5 M_{w}=0.6$	M <sub>L</sub> =1.4 M <sub>w</sub> =1.5	$M_{L}=0.9 M_{W}=1.3$	$M_{L}=0.5 M_{W}=0.6$	10 100 10 35
10 <sup>10</sup> -	f <sub>c</sub> =57.1 Hz	f <sub>c</sub> =42.4 Hz	f <sub>c</sub> =50.5 Hz	f <sub>c</sub> =55.9 Hz	£.≡36.8.Hz. -	f <sub>c</sub> =35.5 Hz	f <sub>c</sub> =56.0 Hz	- 28 - 21 - 14 such that is not a such that is not
~ ↑		2018203230921	2018203232316	2018204160756	2018204220258	2018204234743	2018205205035	- 7 - 7
	2018203174444	<u> </u>		<del></del>	<del></del>	<del></del>	<del></del>	
	10 100	10 100	10 100	10 100 frequency (Hz)	10 100	10 100	10 100	