

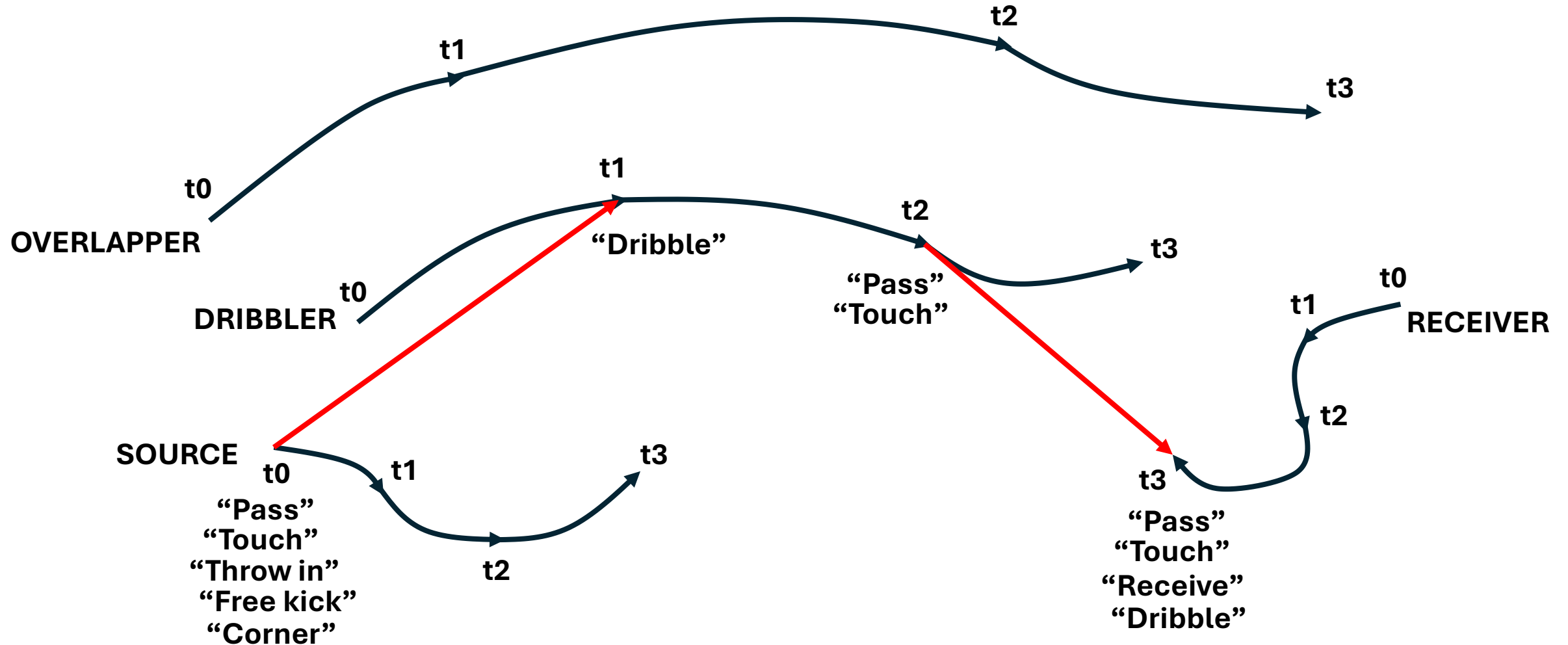
Overlap run tactic

Automatic recognition from Chyronhego data

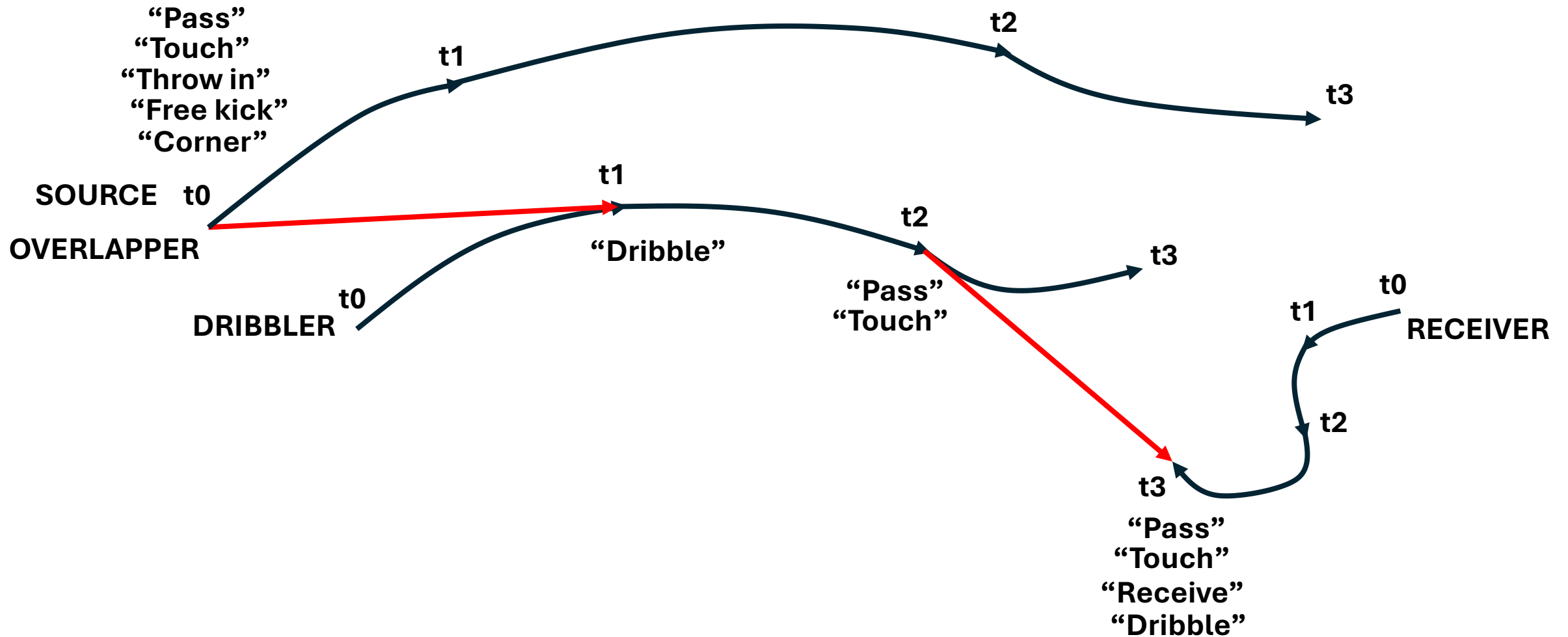
Peter O'Donoghue

November 2024

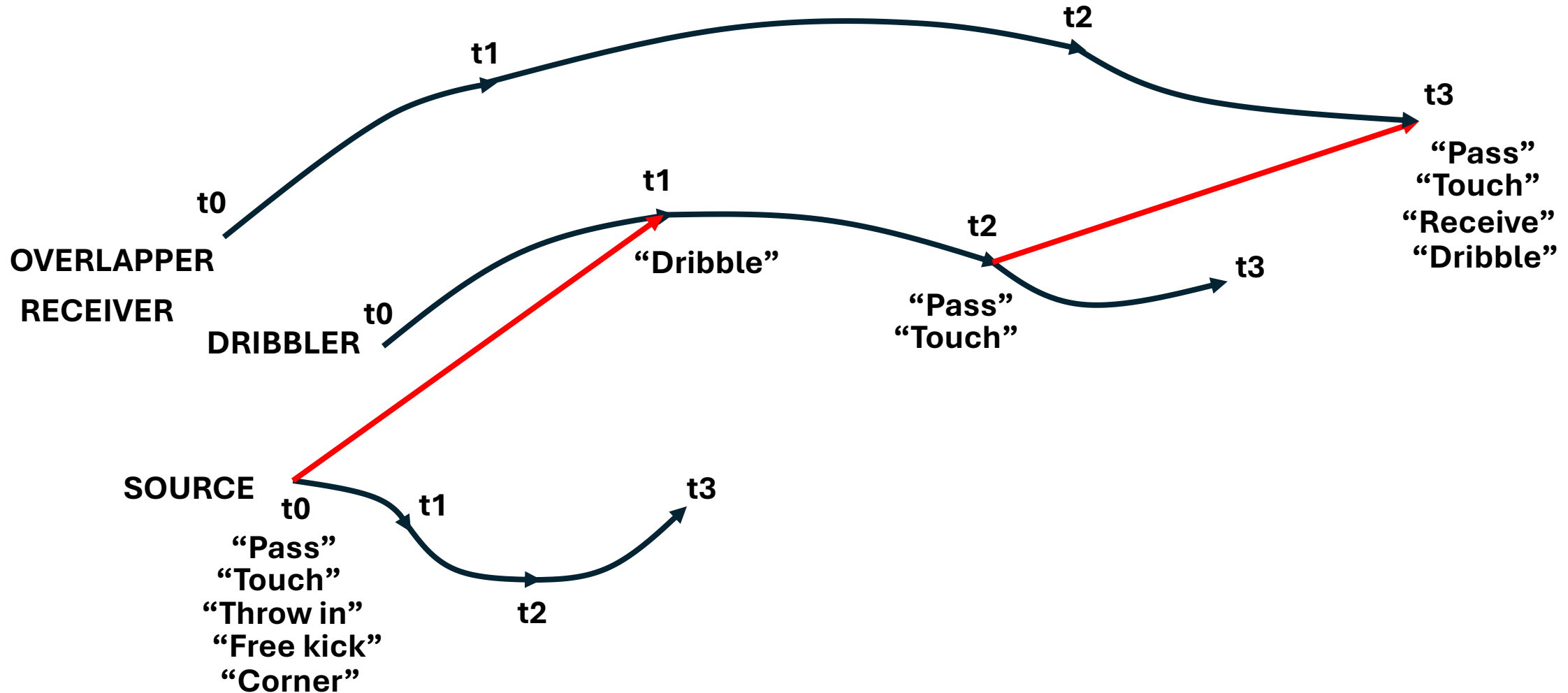
Timings and Players – normal situation



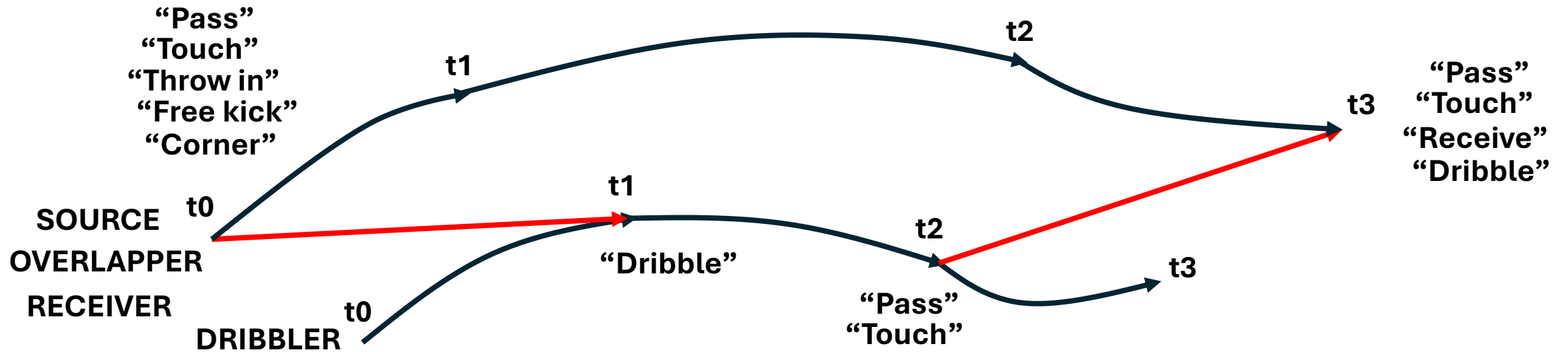
Timings and Players – normal situation












Timings and Players – normal situation



Timings and Players – normal situation



EventXY representation of dribble

Fields	 Row	 EndRow	 Event	 Team	 Player	 Event2	 Outcome	 X	 Y	
168	16011	16012	"Touch"	1	11	"Intercepti...	1	1752	646	
169	16032	-1	"Pass"	1	4	"N/A"	1	1369	550	
170	16055	16163	"Dribble"	1	6	"N/A"	-1	1503	1385	
171	16103	-1	"Touch"	1	6	"N/A"	-1	1146	2302	
172	16122	-1	"Touch"	1	6	"N/A"	-1	719	2507	
173	16143	-1	"Pass"	1	6	"N/A"	1	238	2717	
174	16226	16228	"Touch"	1	9	"N/A"	-1	-2381	2794	
175	16229	16241	"Touch"	0	15	"Intercepti...	1	-2422	2766	
176	16569	-1	"Throw In"	1	2	"N/A"	1	-1696	3419	

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t0

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t1

t2

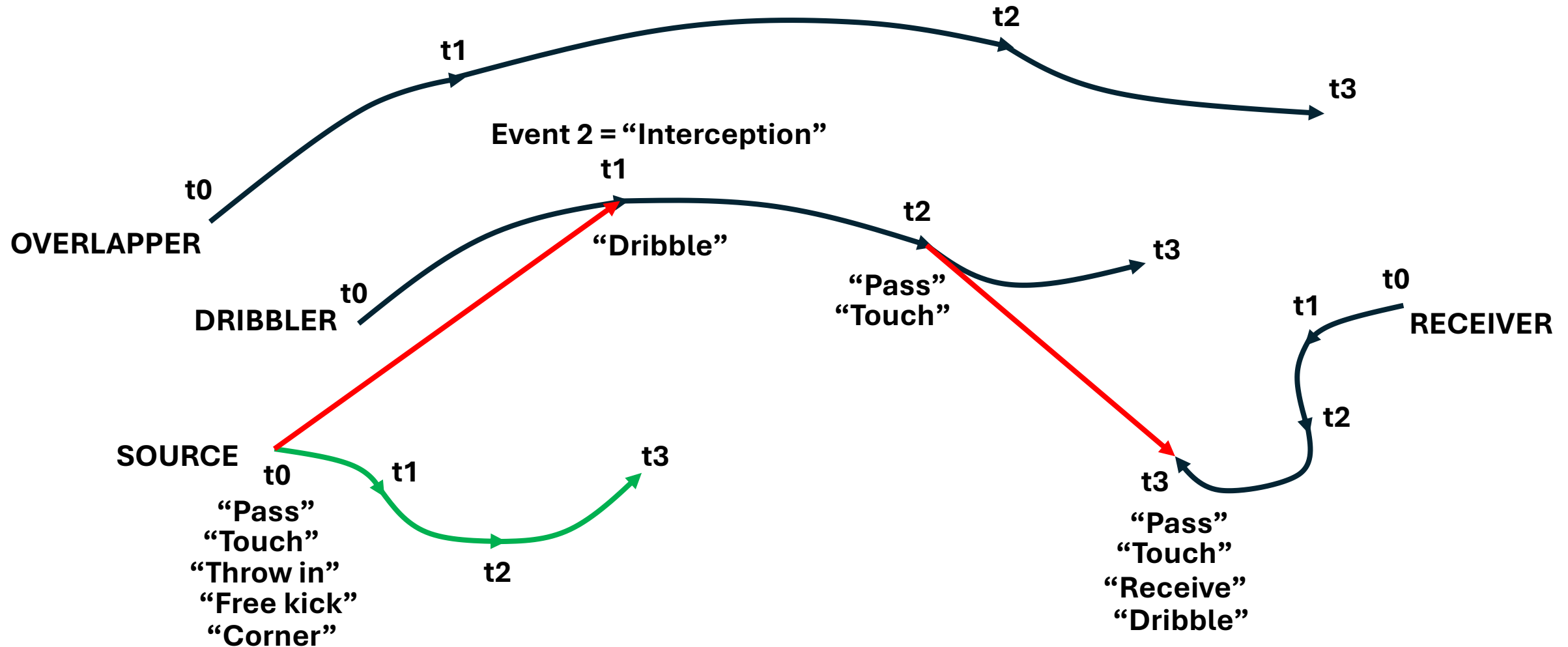
EventXY representation of dribble

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168	16011	16012	"Touch"	1	11	"Intercepti...	1	1752	646
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t3

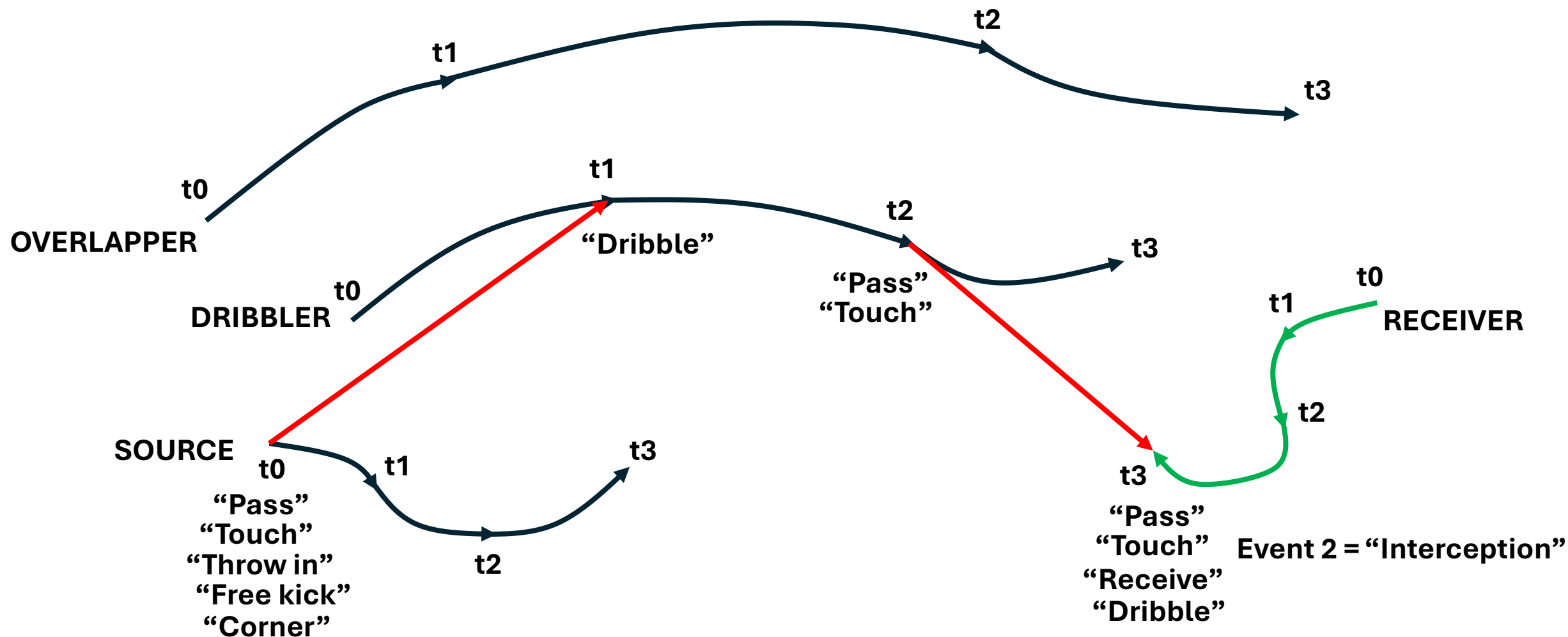
Timings and Players – variations

(1) Source maybe opponent so dribbler intercepts



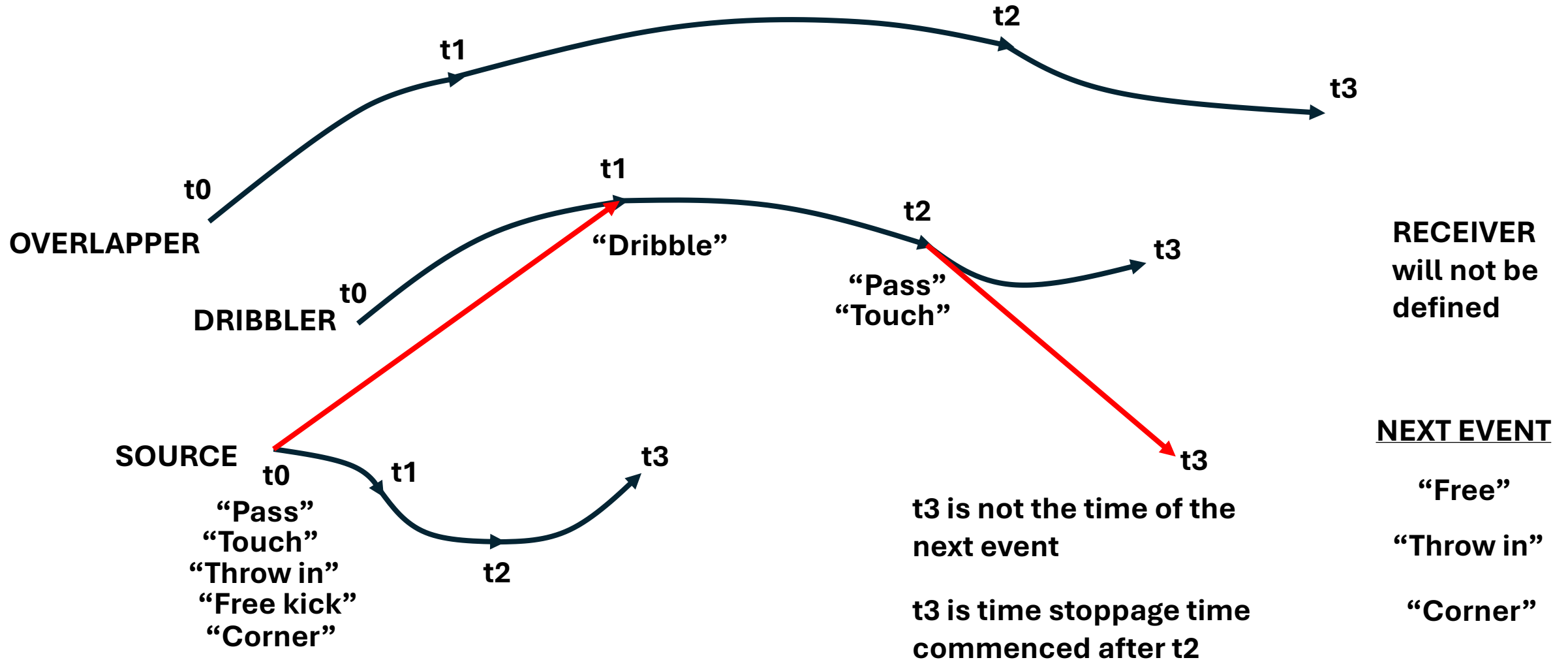
Timings and Players – variations

(2) Receiver may be opponent so pass intercepted



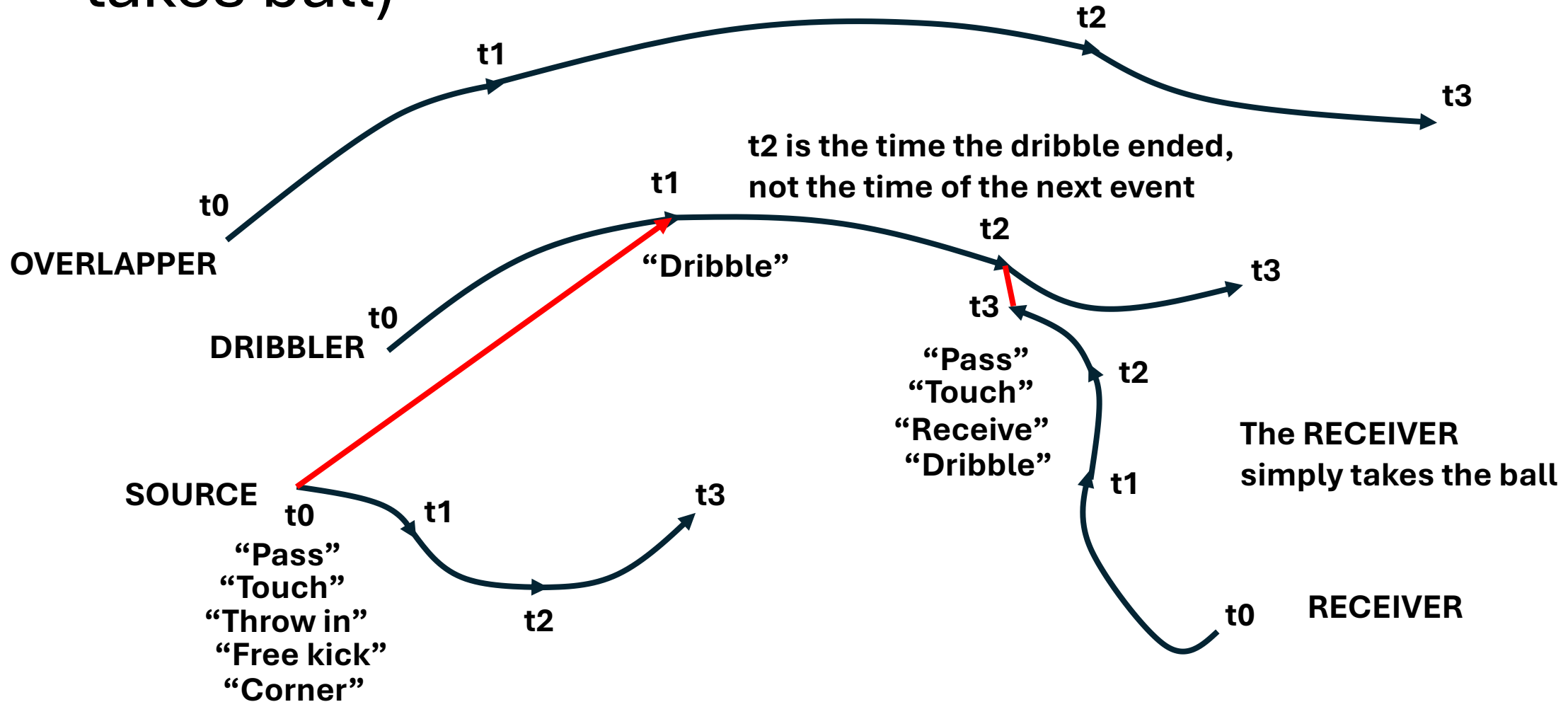
Timings and Players – variations

(3) The ball may be passed out of play



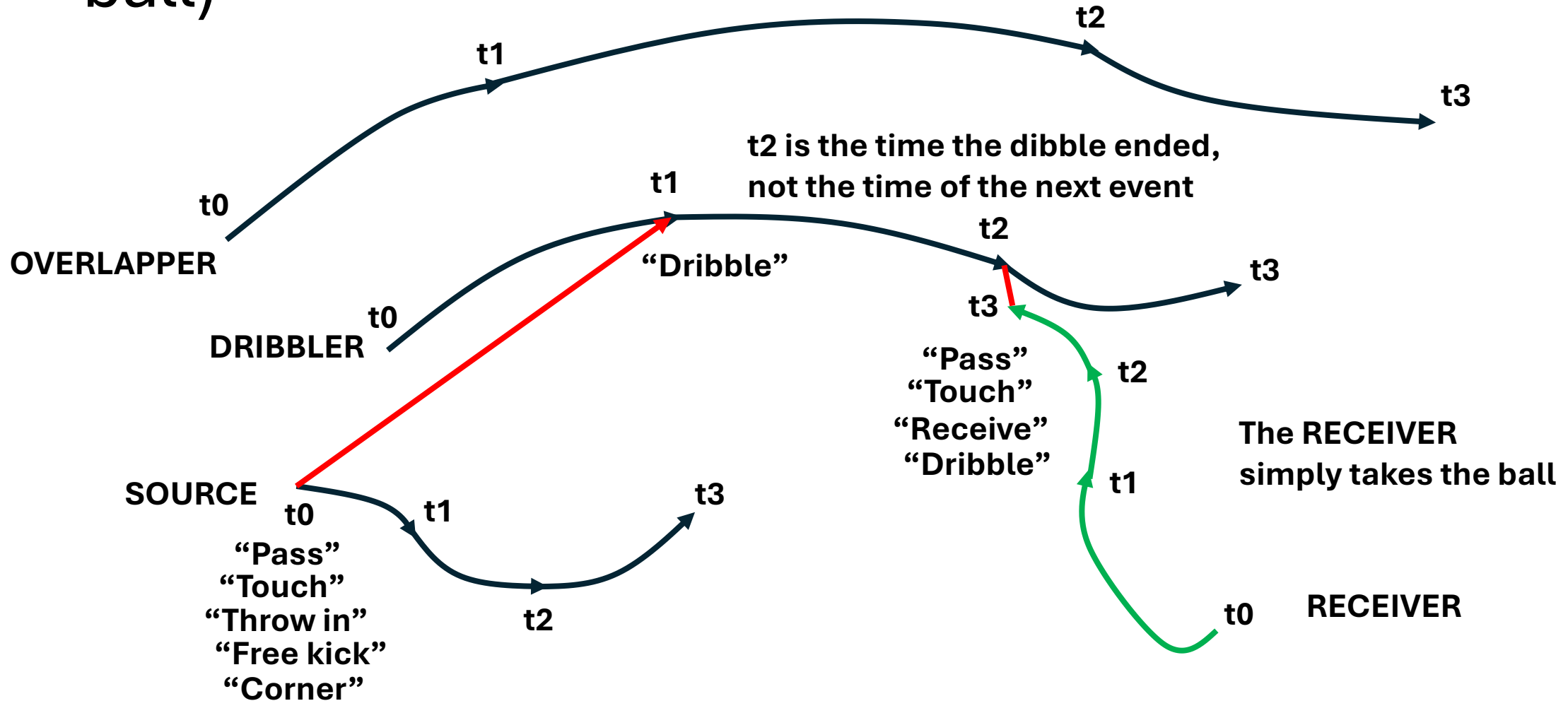
Timings and Players – variations

(4) Dribbler has no release event (team-mate takes ball)



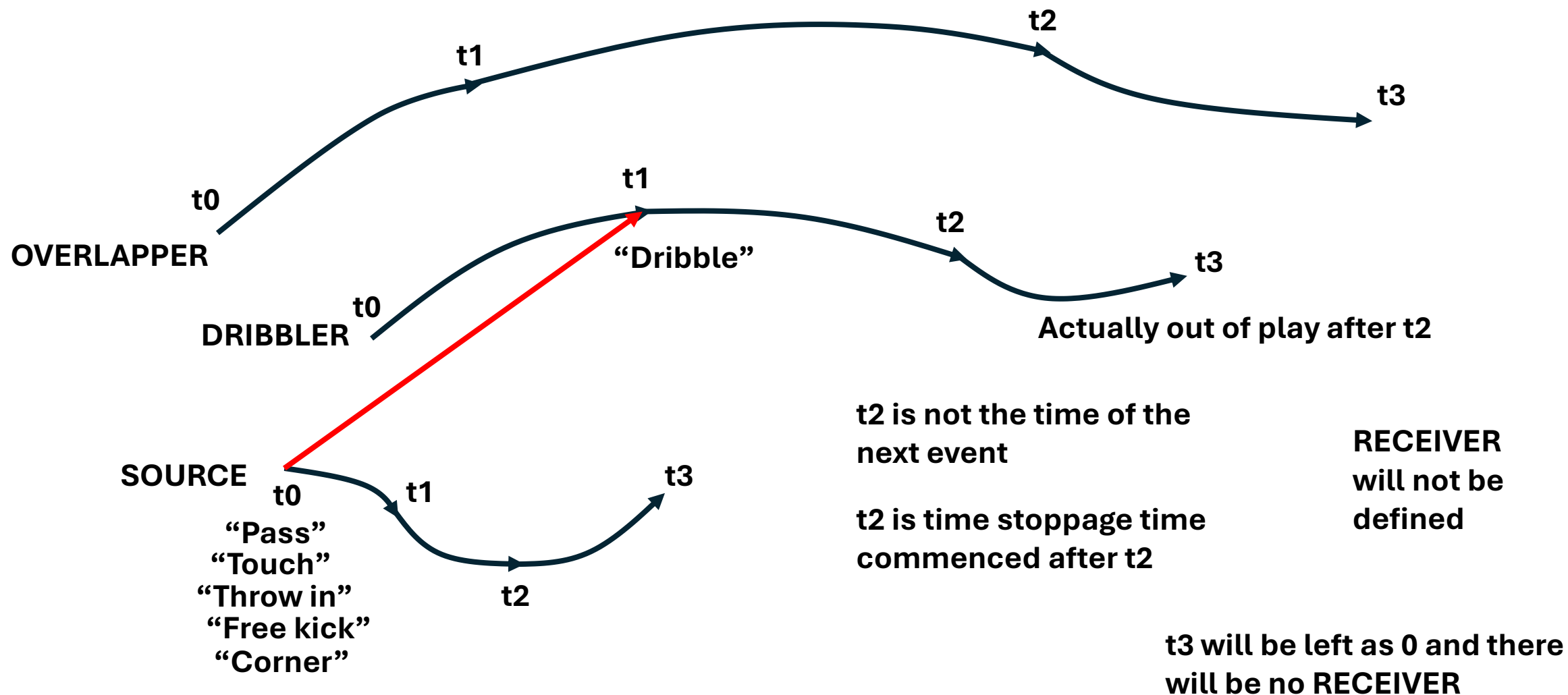
Timings and Players – variations

(4) Dribbler has no release event (opponent takes ball)



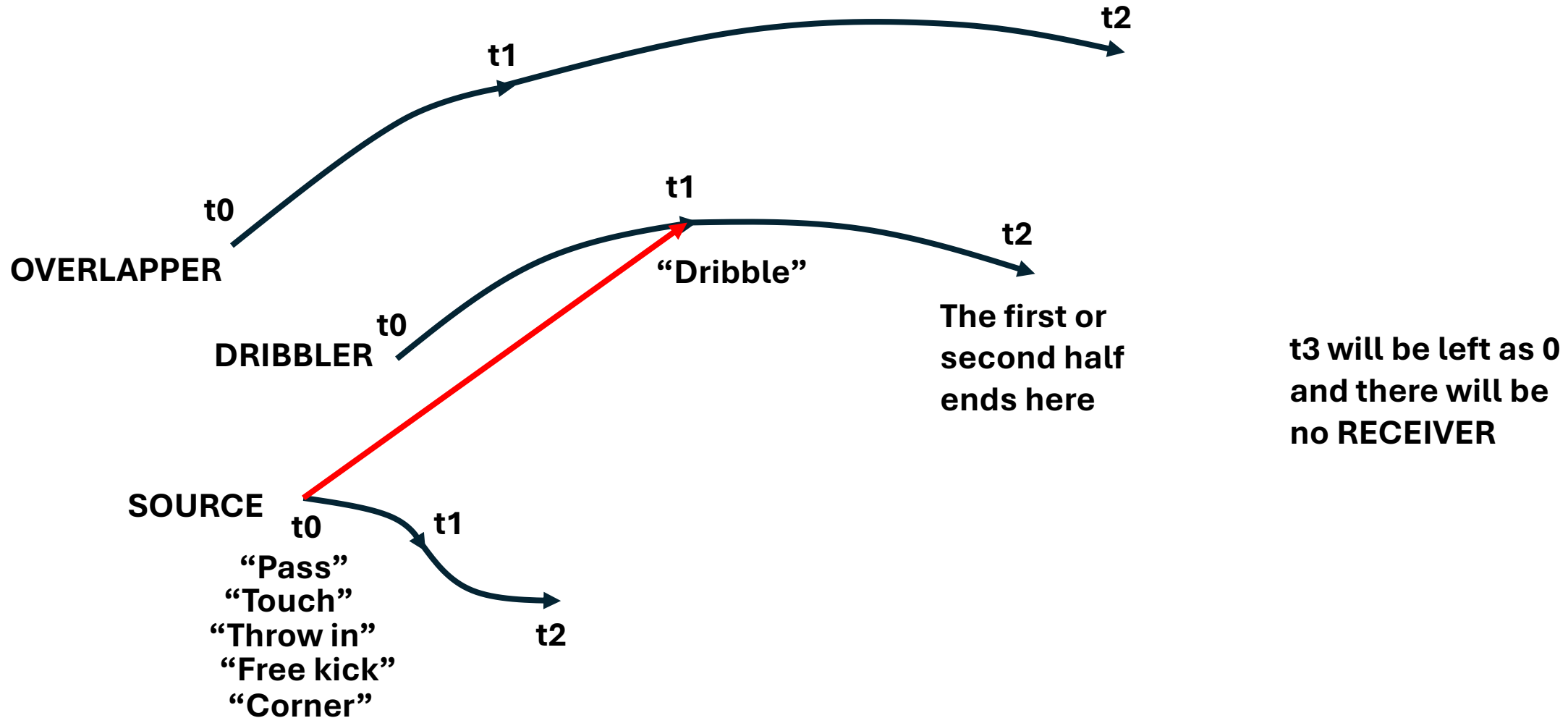
Timings and Players – variations

(5) Ball dribbled out for goal kick / throw in / corner



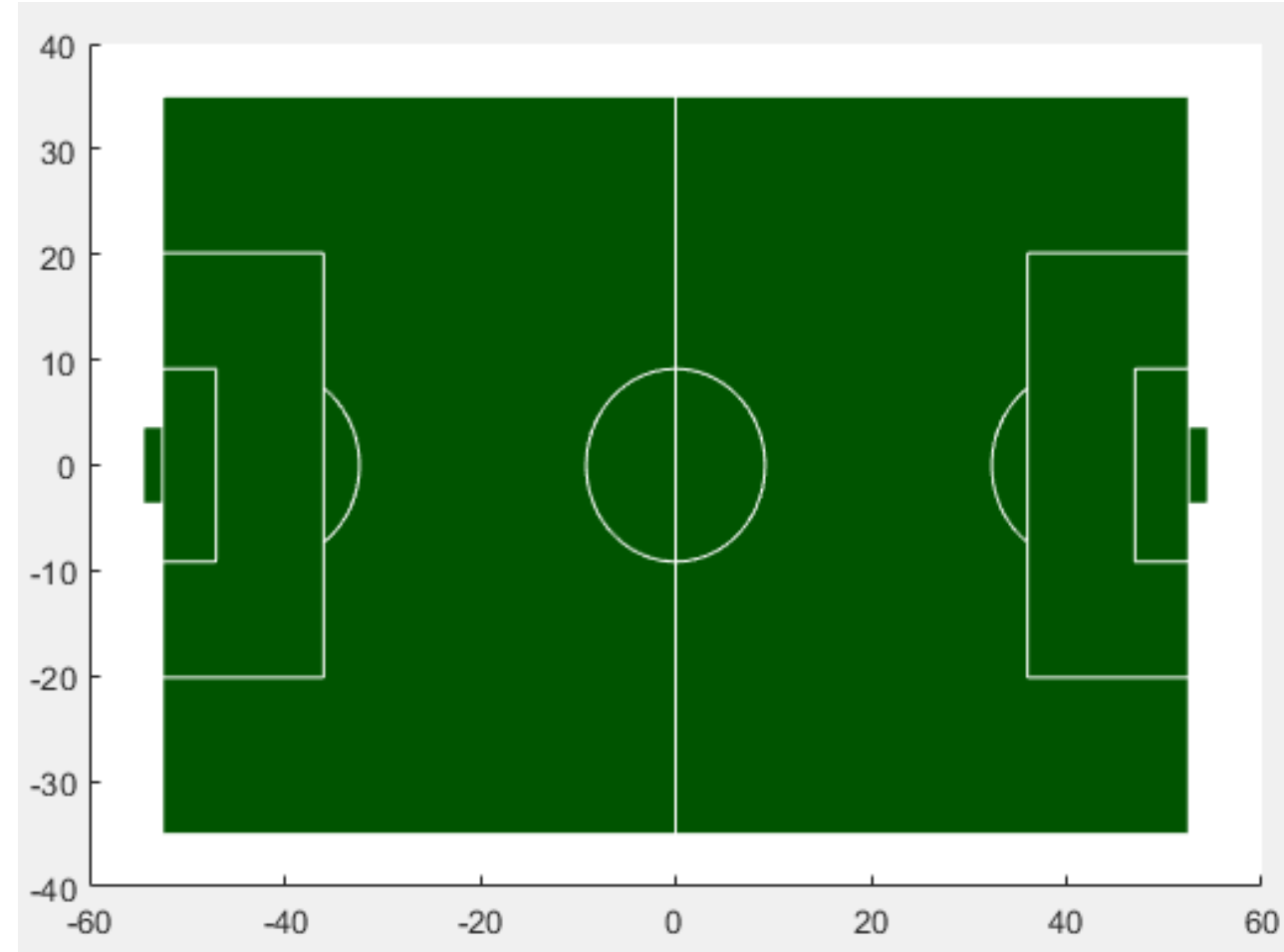
Timings and Players – variations

(6) The match period ends during the dribble



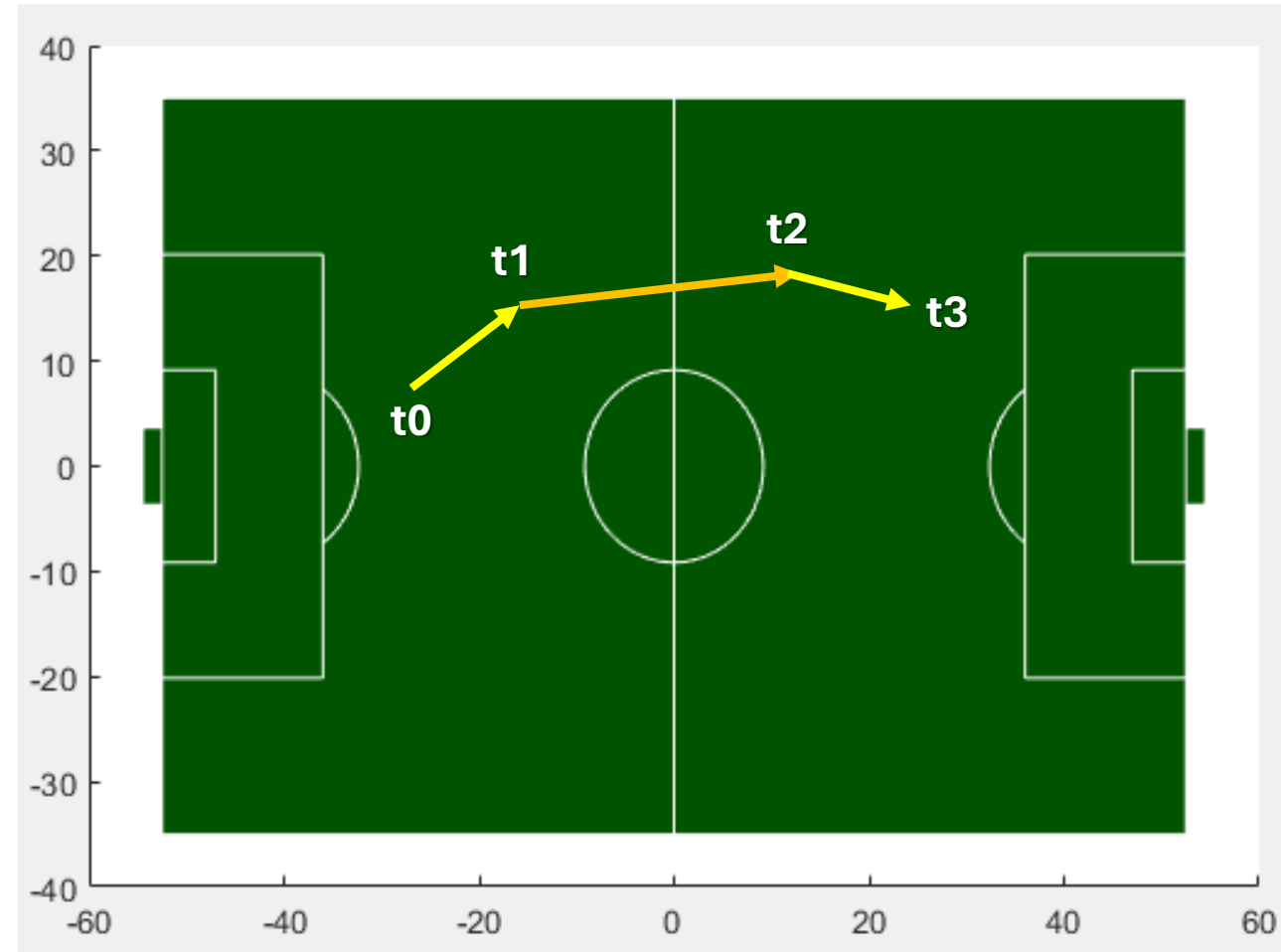
Criteria 1: There is a dribble event

- This will be the case for all events in the base set of events
- Dribble is the base
- Dribbles are then to be classified as having an associated overlap run or not



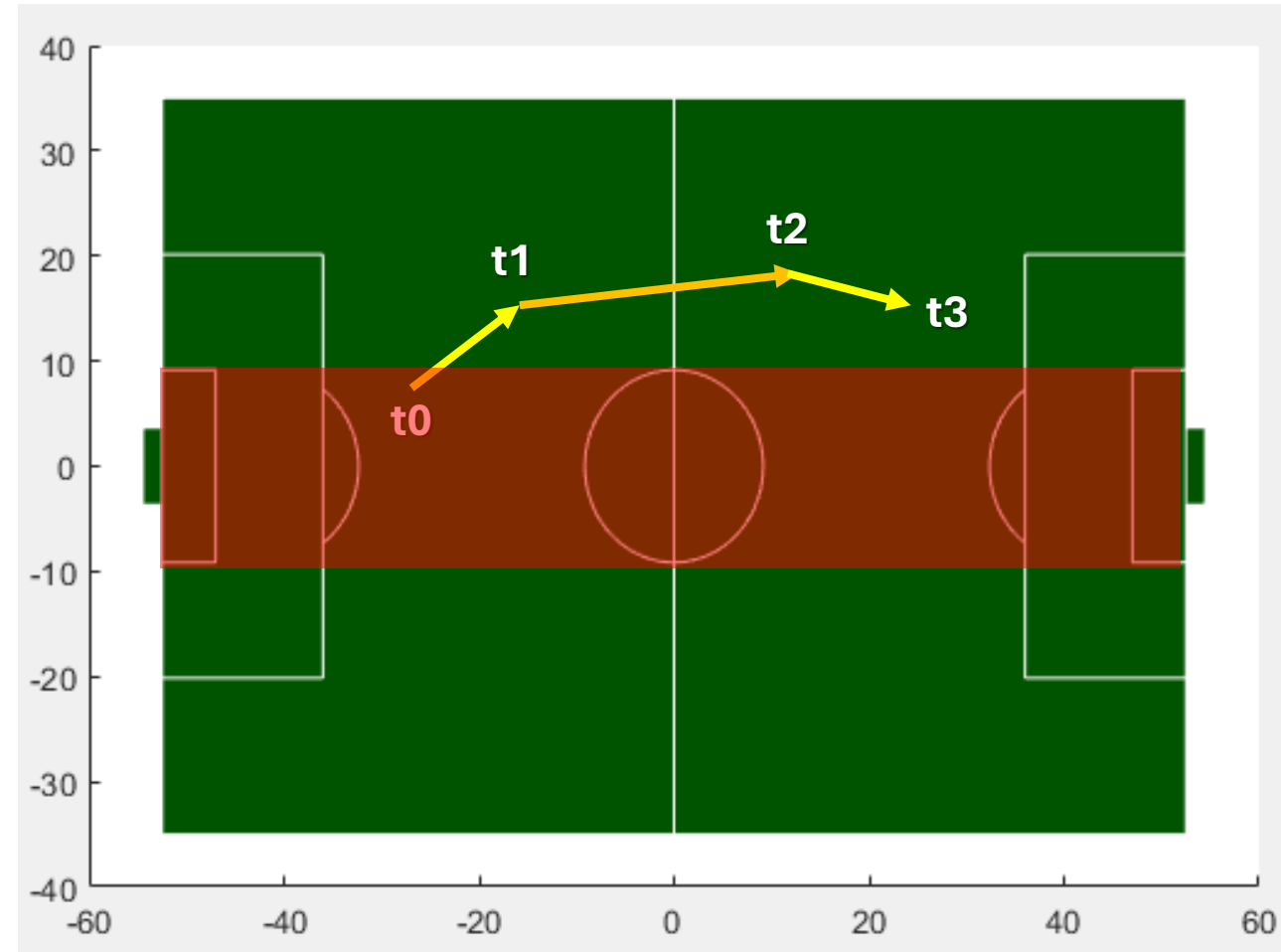
Criteria 2: The dribble must be forward

- Remember all events are being dealt with as though the team is playing from left to right



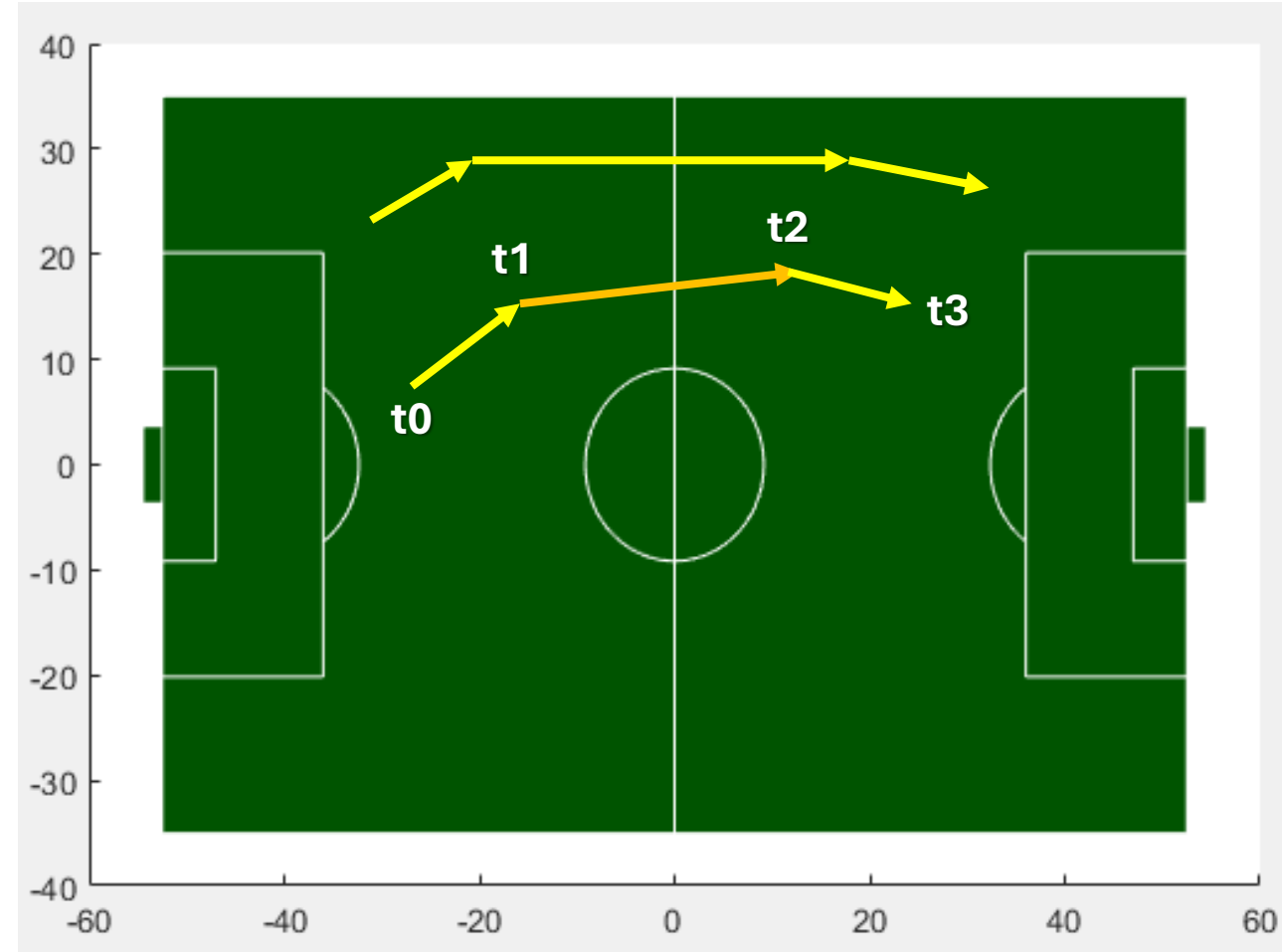
Criteria 3: The dribble must be at least 9.15m (10 yards) wide of the centre of the pitch

- This only applies to the dribble performed between times t_1 and t_2



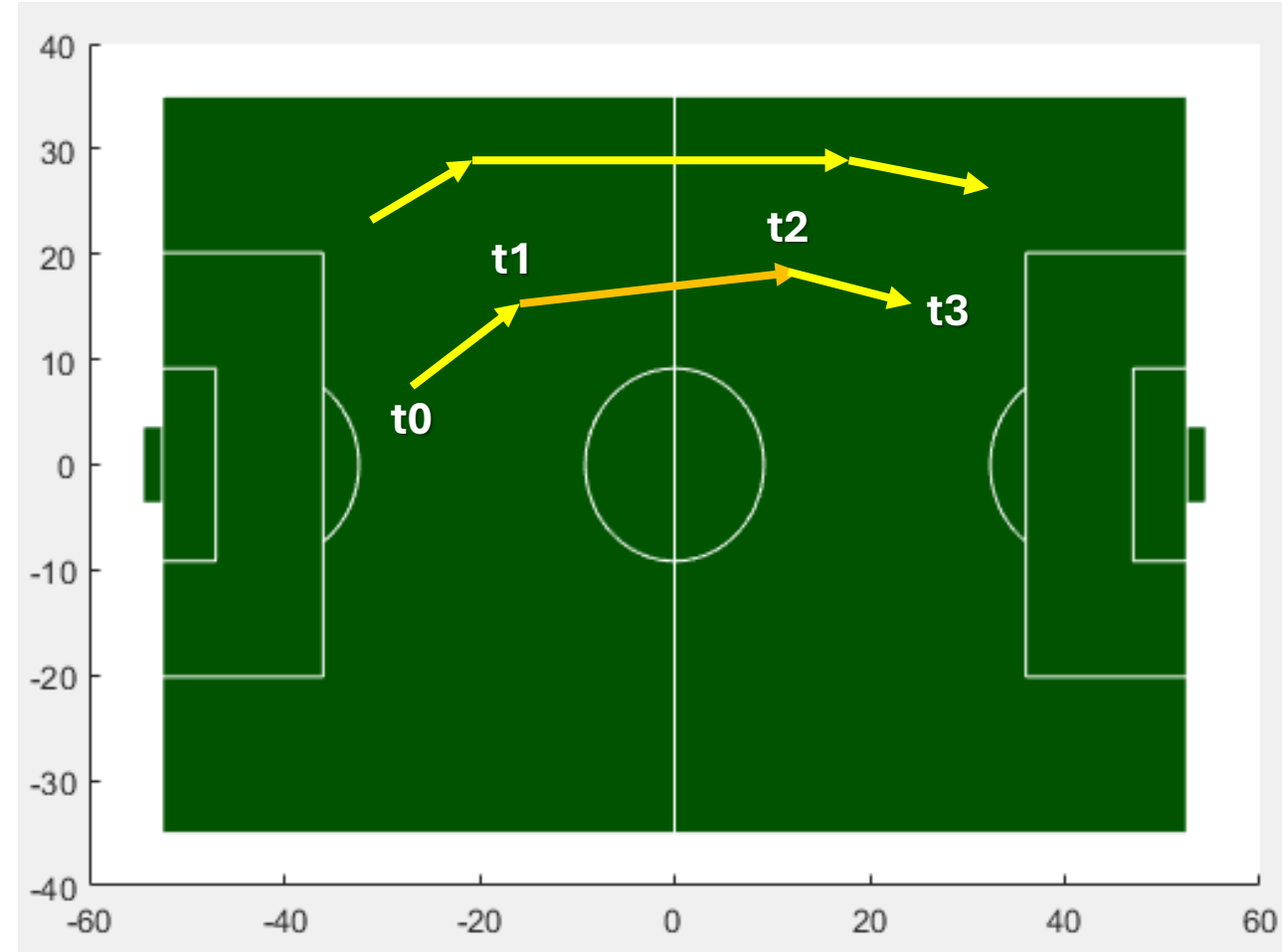
Criteria 4: The overlapping player must be outside the dribbler for the full dribble

- This only applies to the time of the dribble performed between times t_1 and t_2



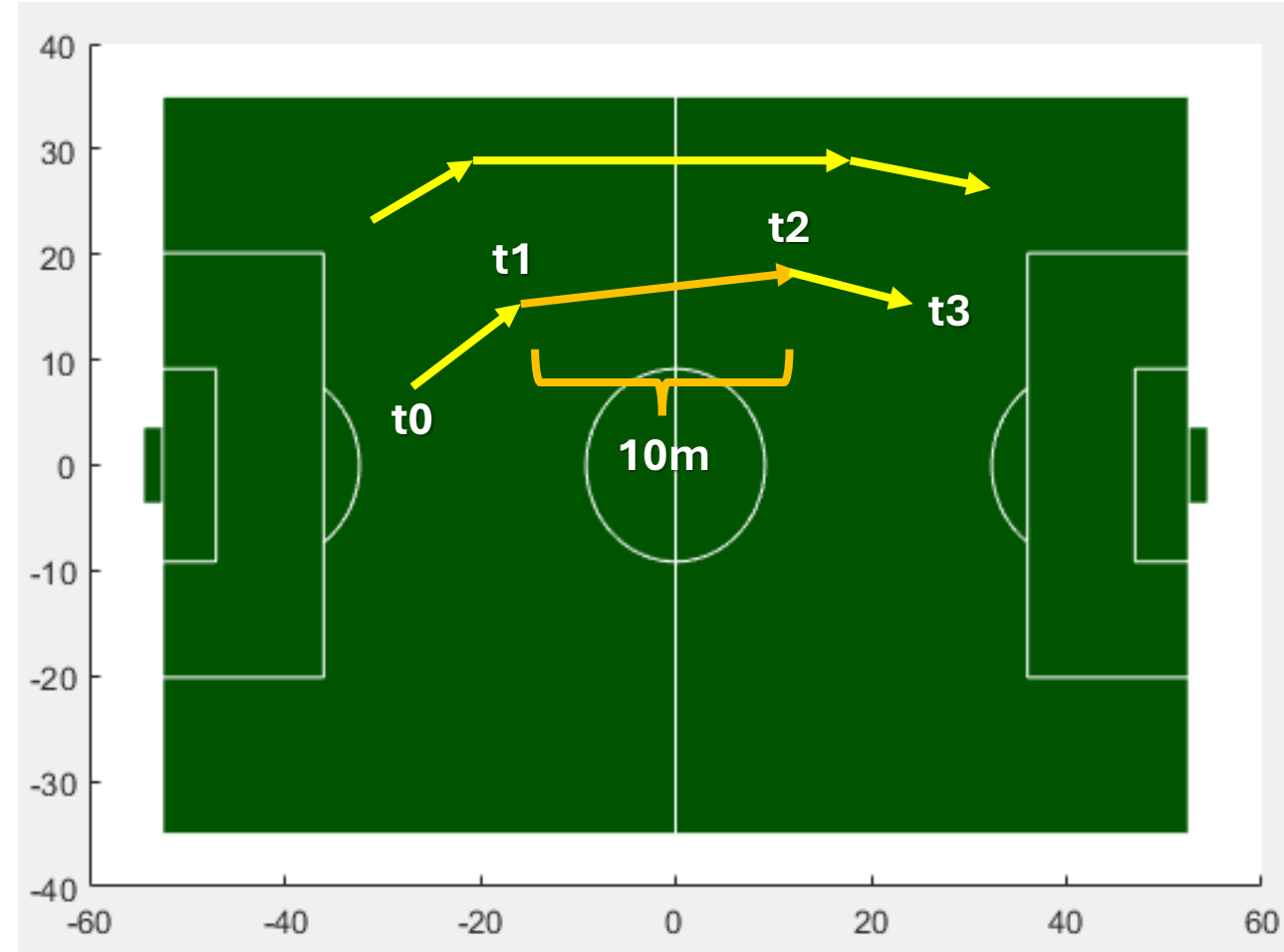
Criteria 5: The overlapping player starts behind the dribbler and finishes ahead

- This only applies to the time of the dribble performed between times t_1 and t_2



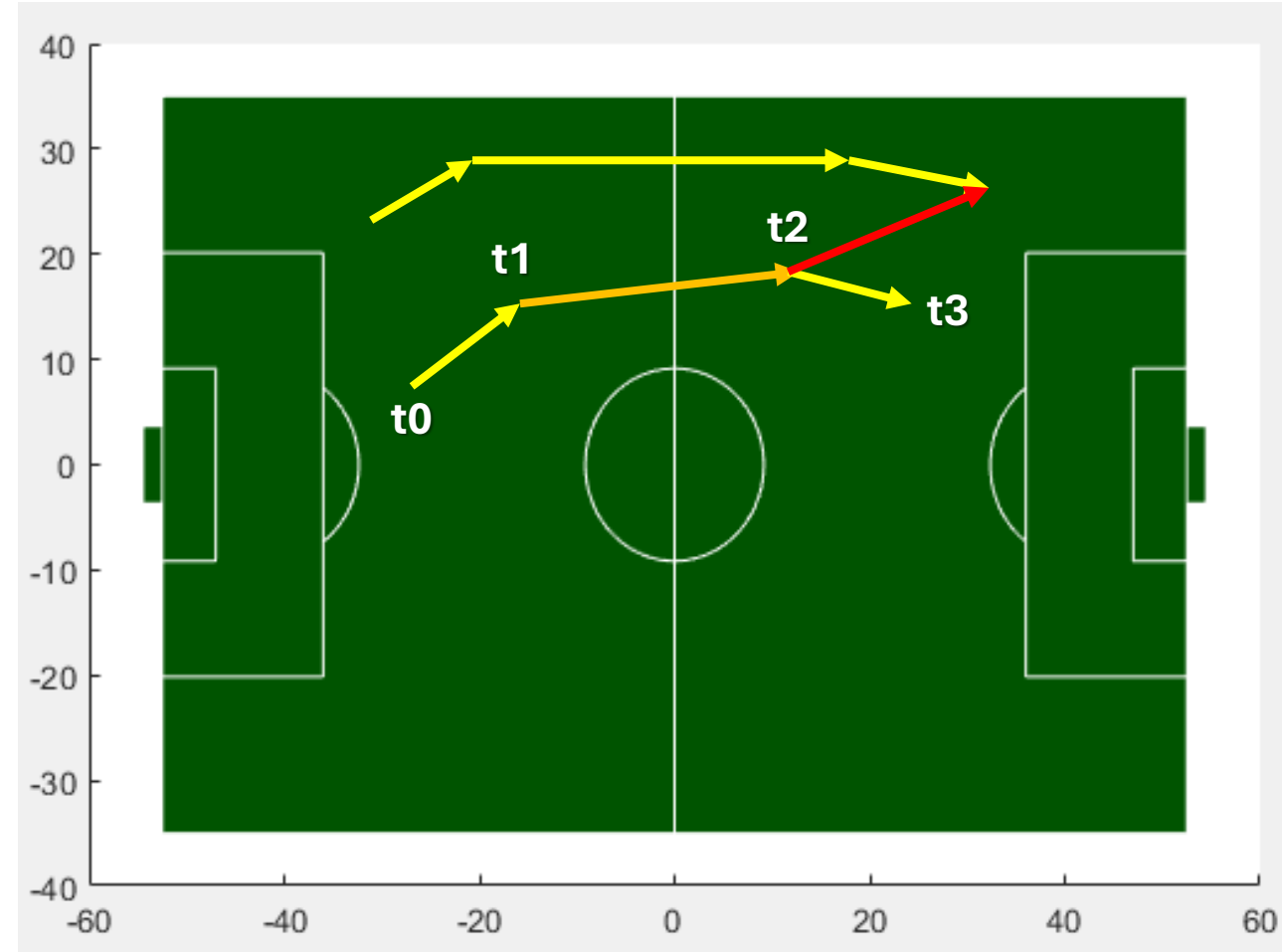
Criteria 6: The dribble must be at least 10m

- This is the total distance of the dribble, not the direct line between start and end of the dribble



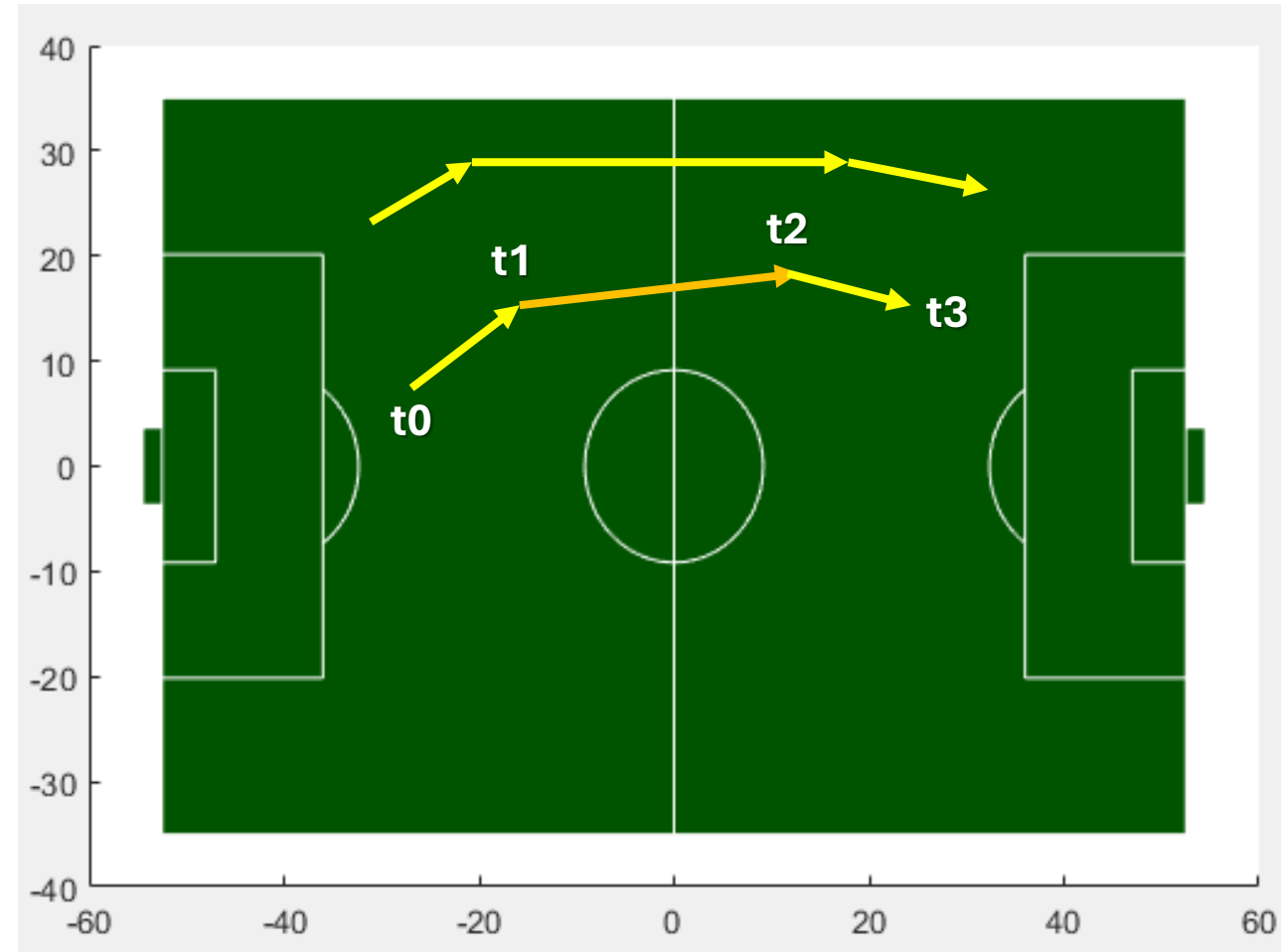
Criteria 7: The dribbler passes to the overlapping player

- This is optional



Criteria 8: Part or all of the dribble must be in the opposing team's half of the pitch

- This is optional ... at the moment

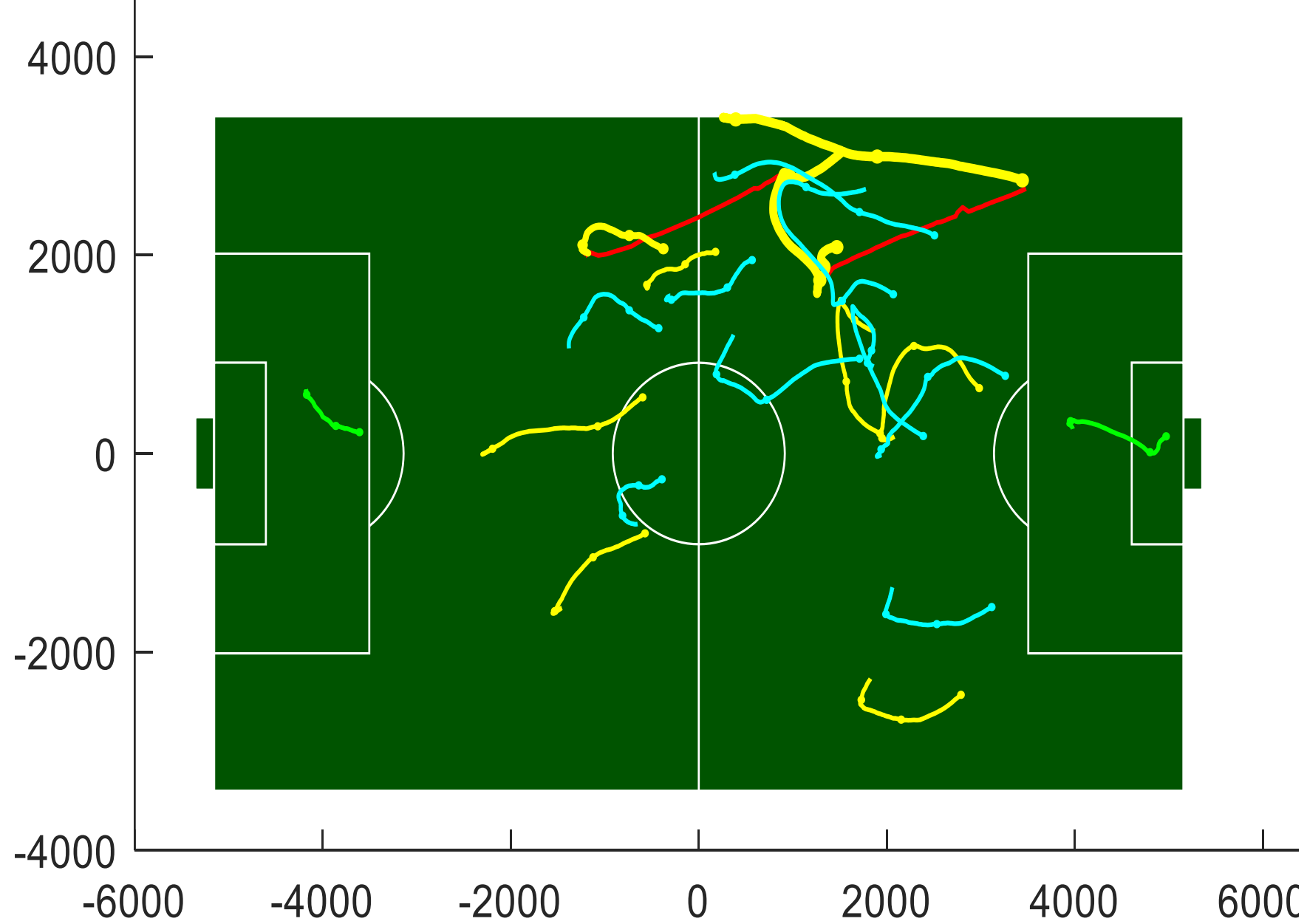


Overlap Team	Opponents
Reading	Cardiff City
Cardiff City	Huddersfield Town
Huddersfield Town	Cardiff City
Middlesbrough	Cardiff City
Hull City	Cardiff City
Cardiff City	West Bromwich Albion
West Bromwich Albion	Cardiff City
Millwall	Cardiff City
Millwall	Cardiff City
Millwall	Cardiff City
Millwall	Cardiff City
Bristol City	Cardiff City
Cardiff City	Charlton Athletic
Charlton Athletic	Cardiff City
Cardiff City	Charlton Athletic
Cardiff City	Stoke City
Reading	Cardiff City
Huddersfield Town	Cardiff City
Huddersfield Town	Cardiff City
Cardiff City	Stoke City
Nottingham Forrest	Cardiff City
Nottingham Forrest	Cardiff City
Barnsley	Cardiff City
Cardiff City	Leeds United
Leeds United	Cardiff City
Charlton Athletic	Cardiff City
Blackburn Rovers	Cardiff City

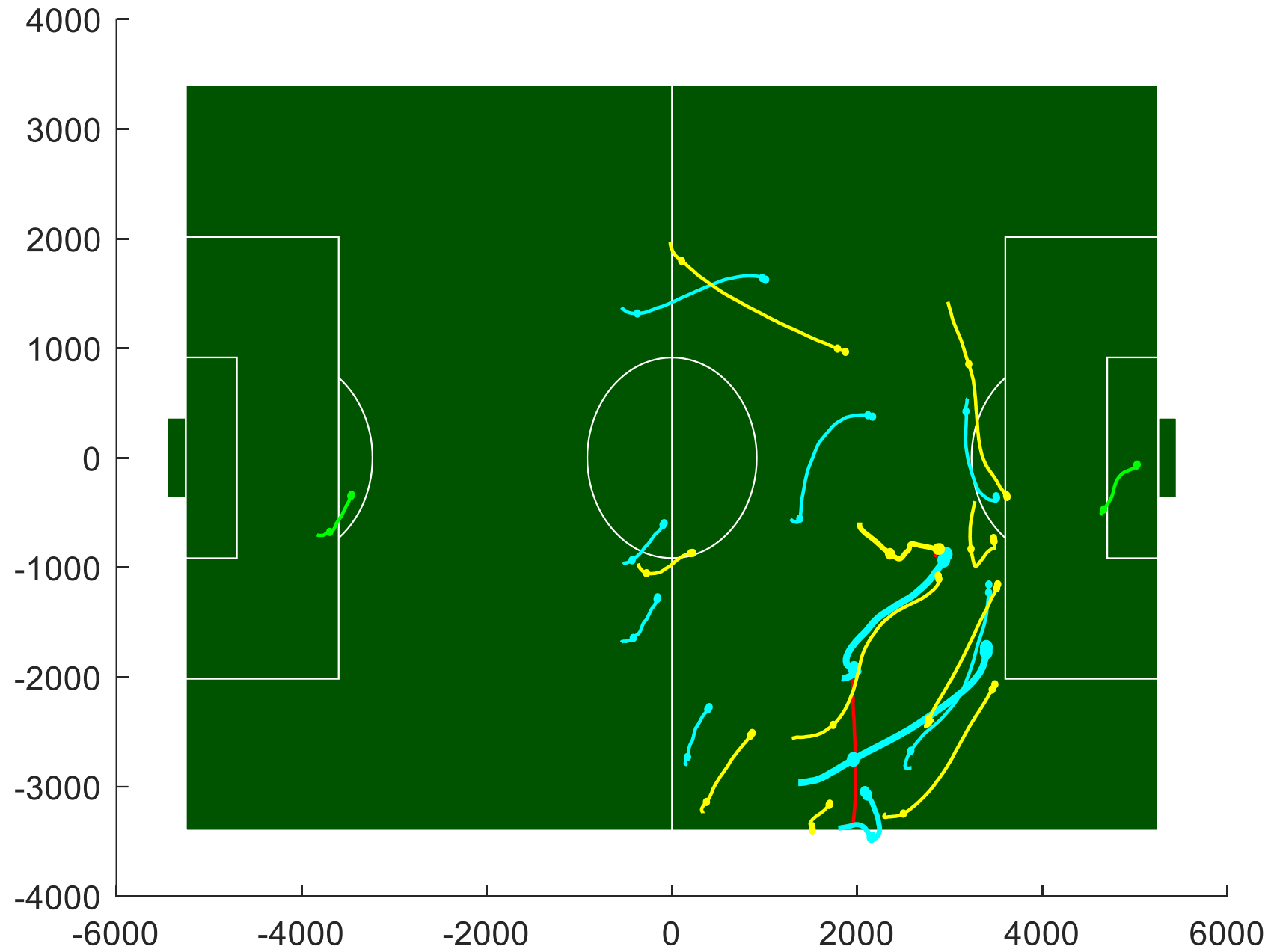
27 Overlaps found

- 1141 dribbles satisfied criteria 1, 2, 3, 6, and 8
- Four from one performance of Millwall v Cardiff City
 - First half: 5:17 to 5:26
 - First half: 28:39 to 28:45
 - Second half: 24:33 to 24:39
 - Second half: 42:10 to 42:19

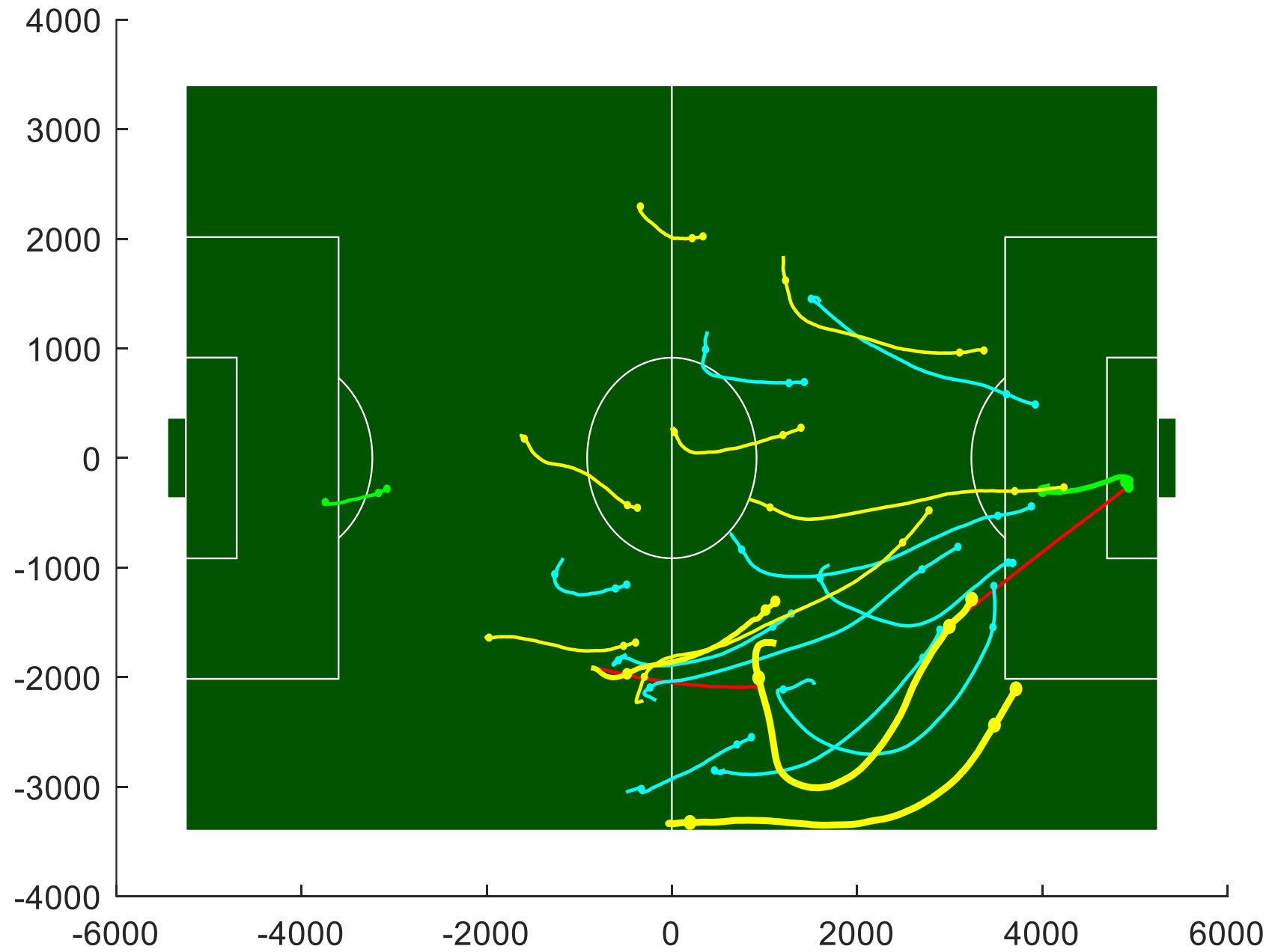
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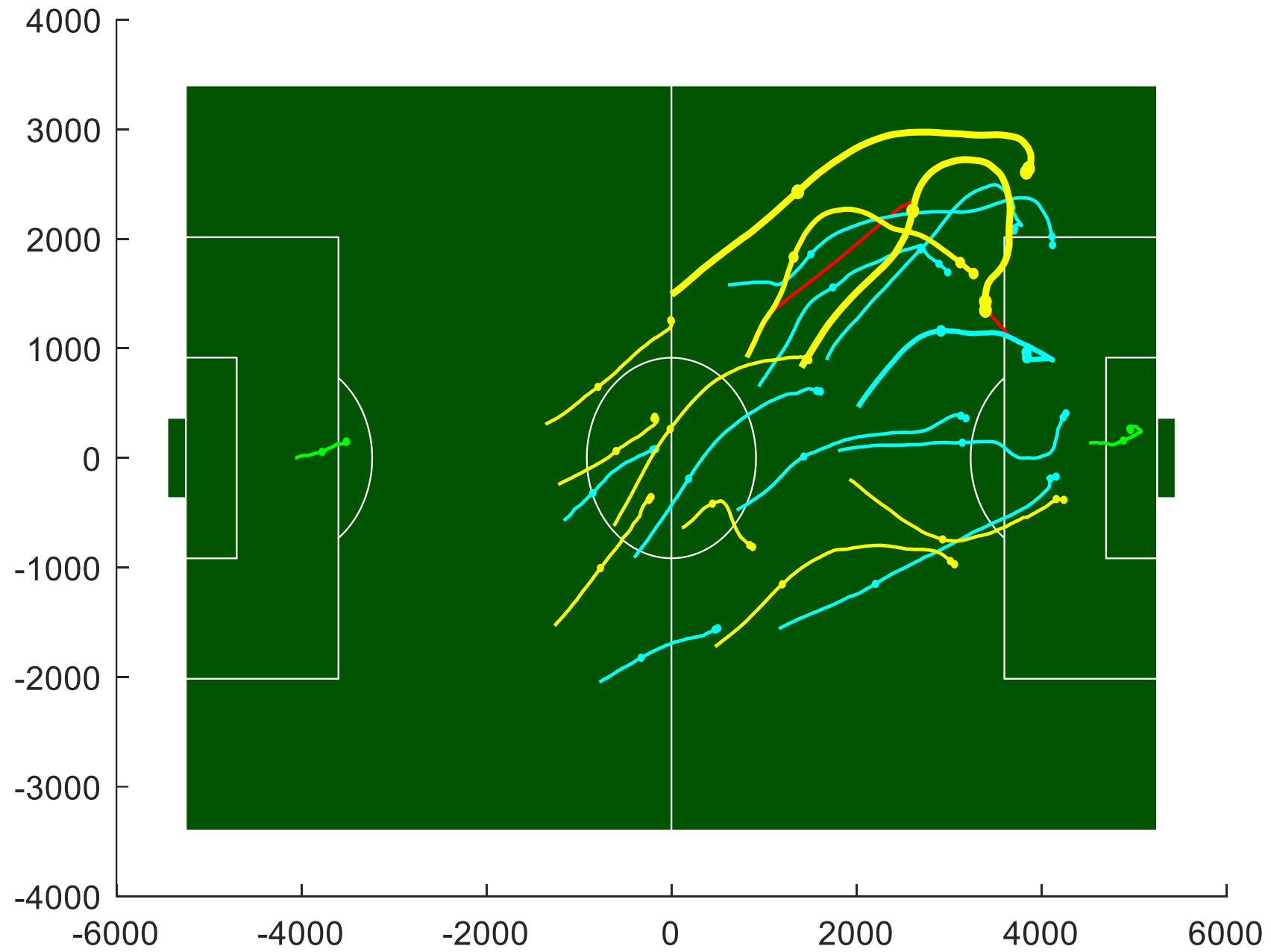
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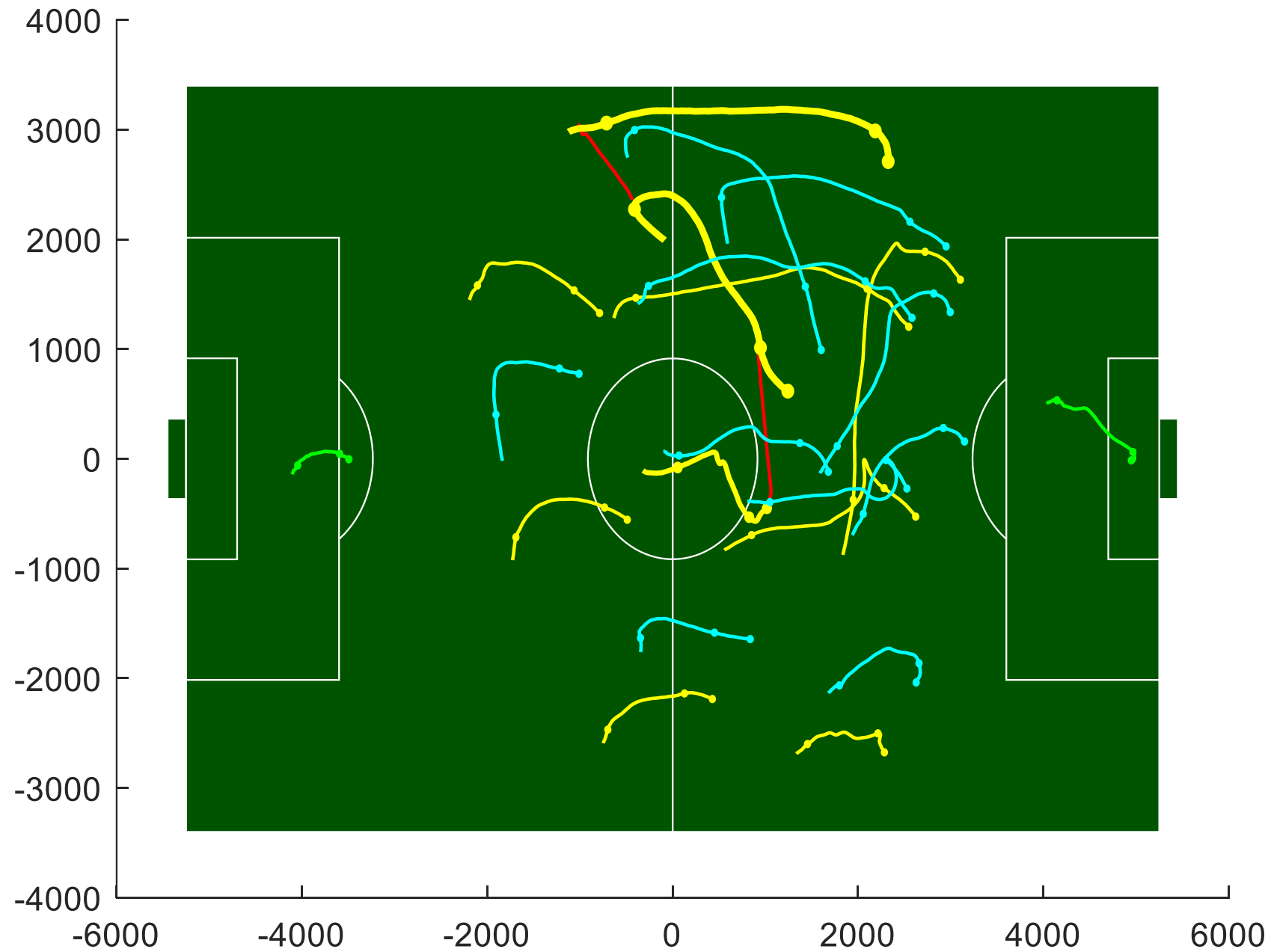
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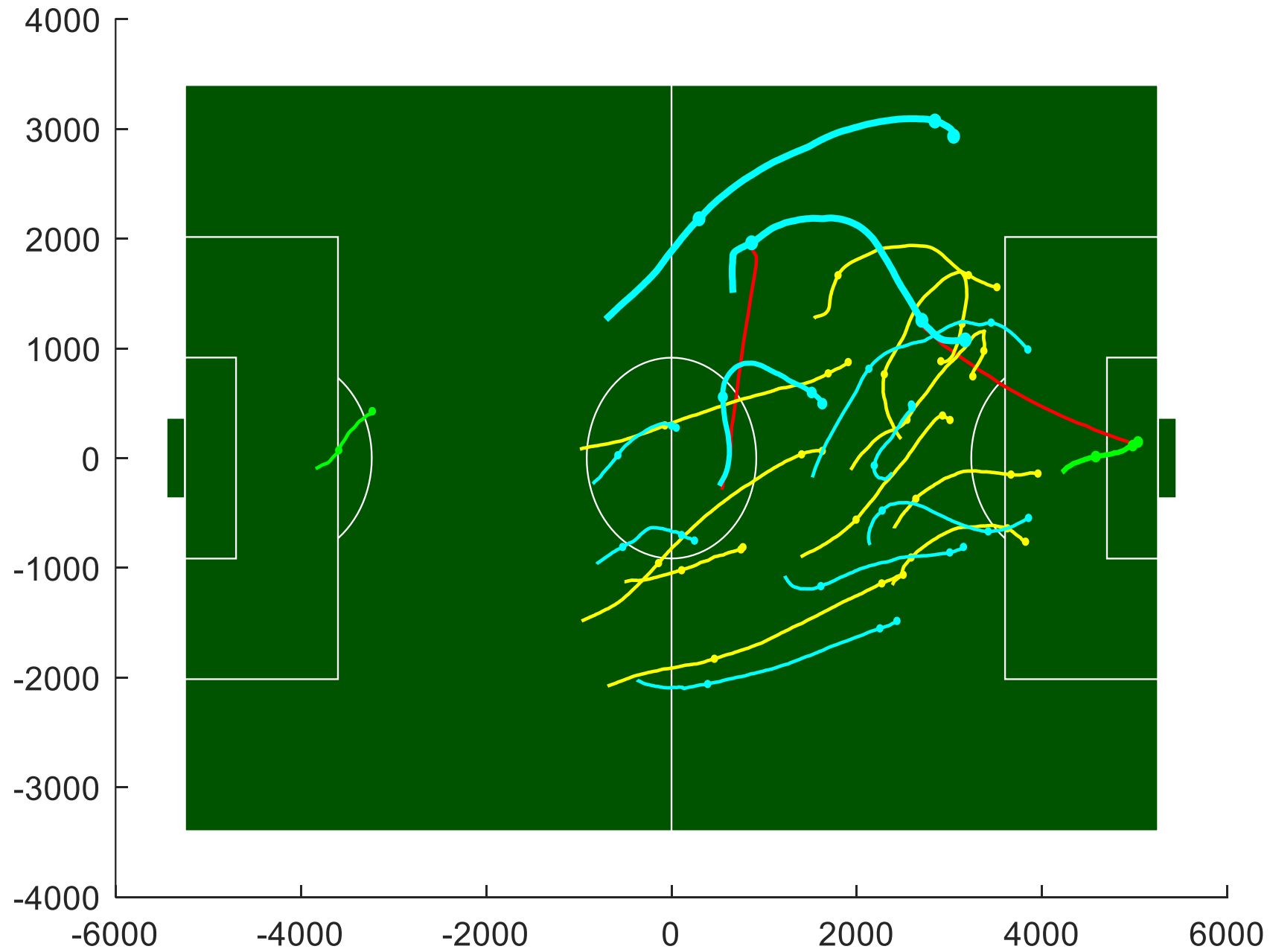
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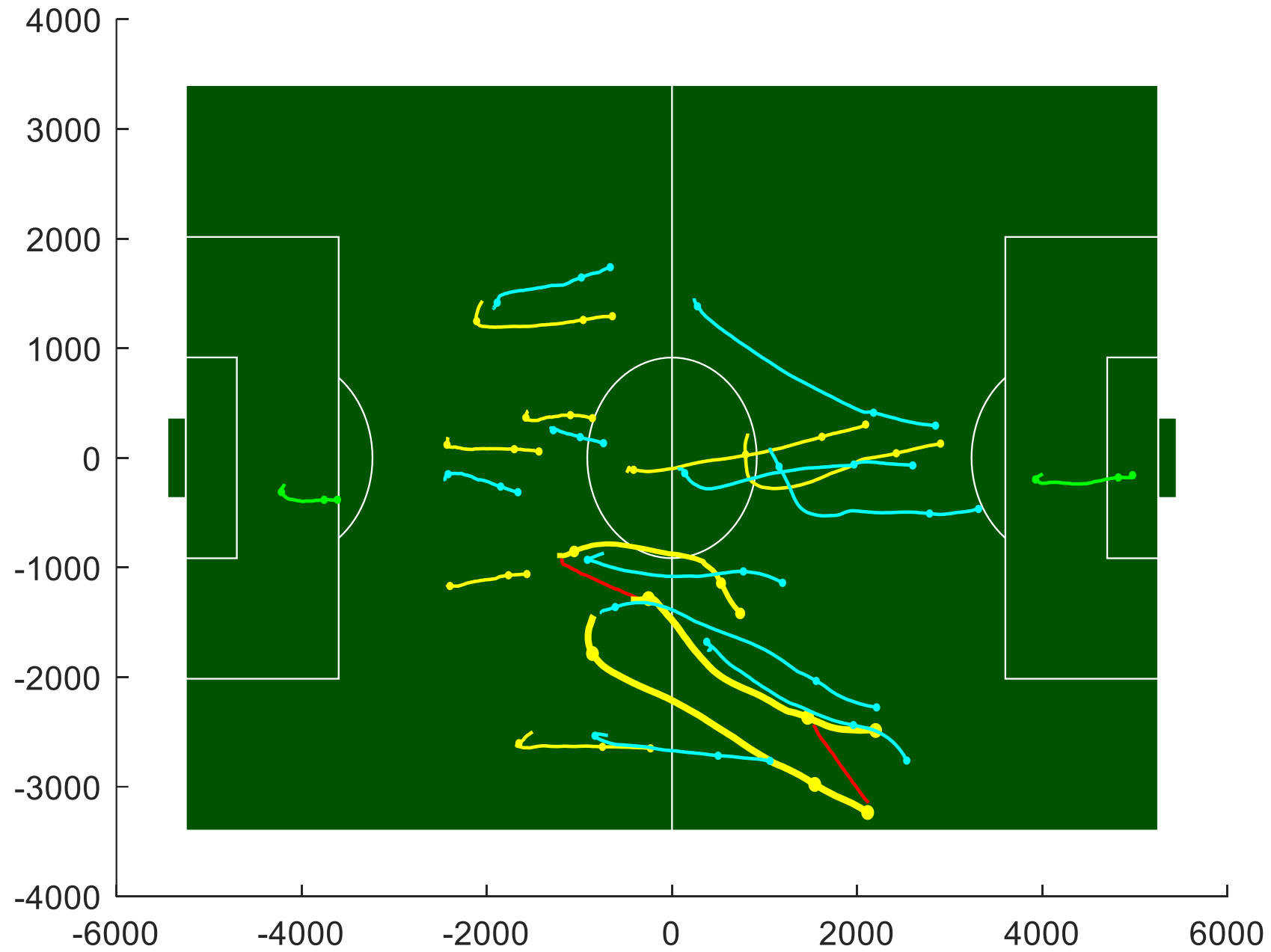
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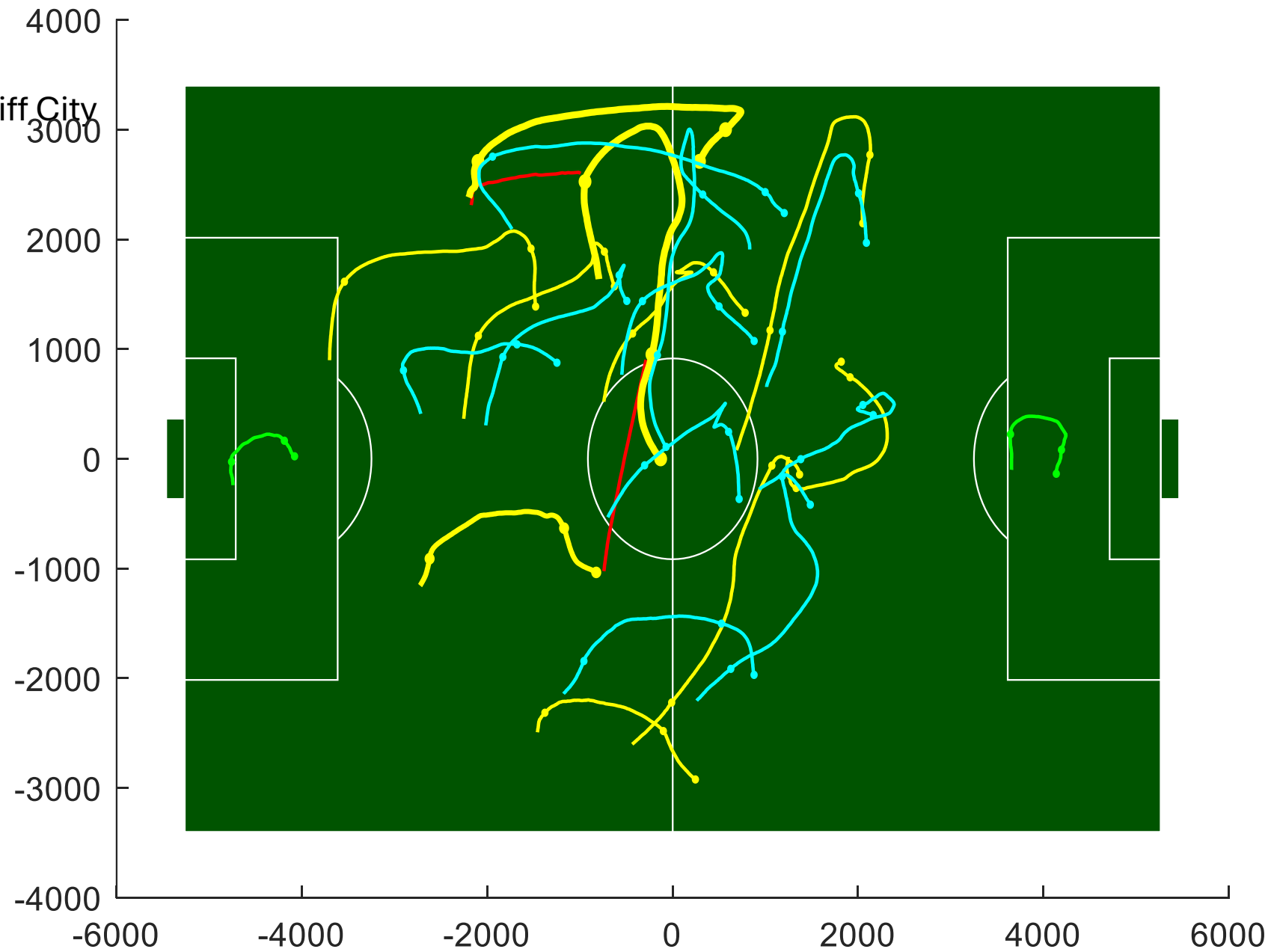
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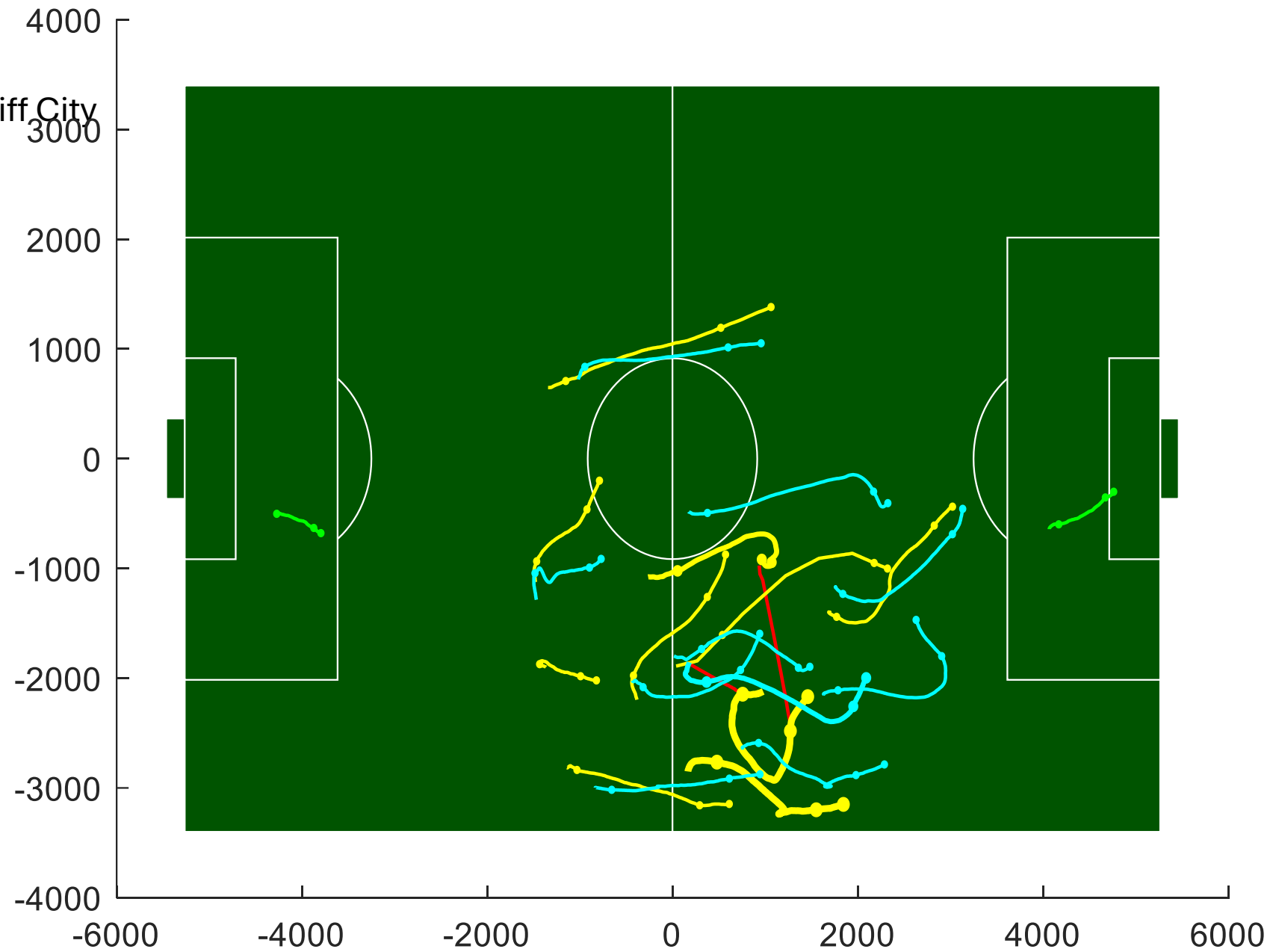
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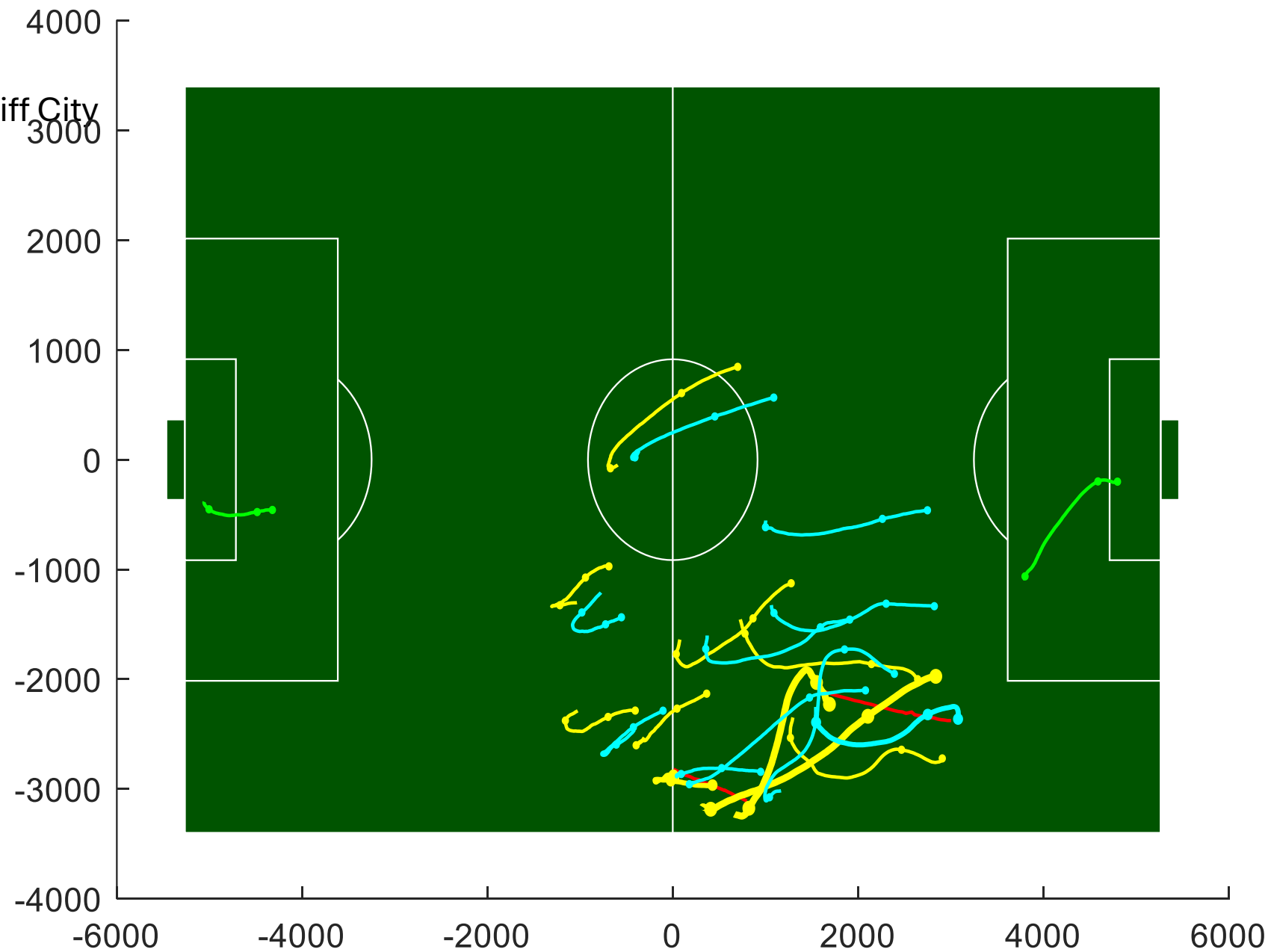
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Millwall v Cardiff City



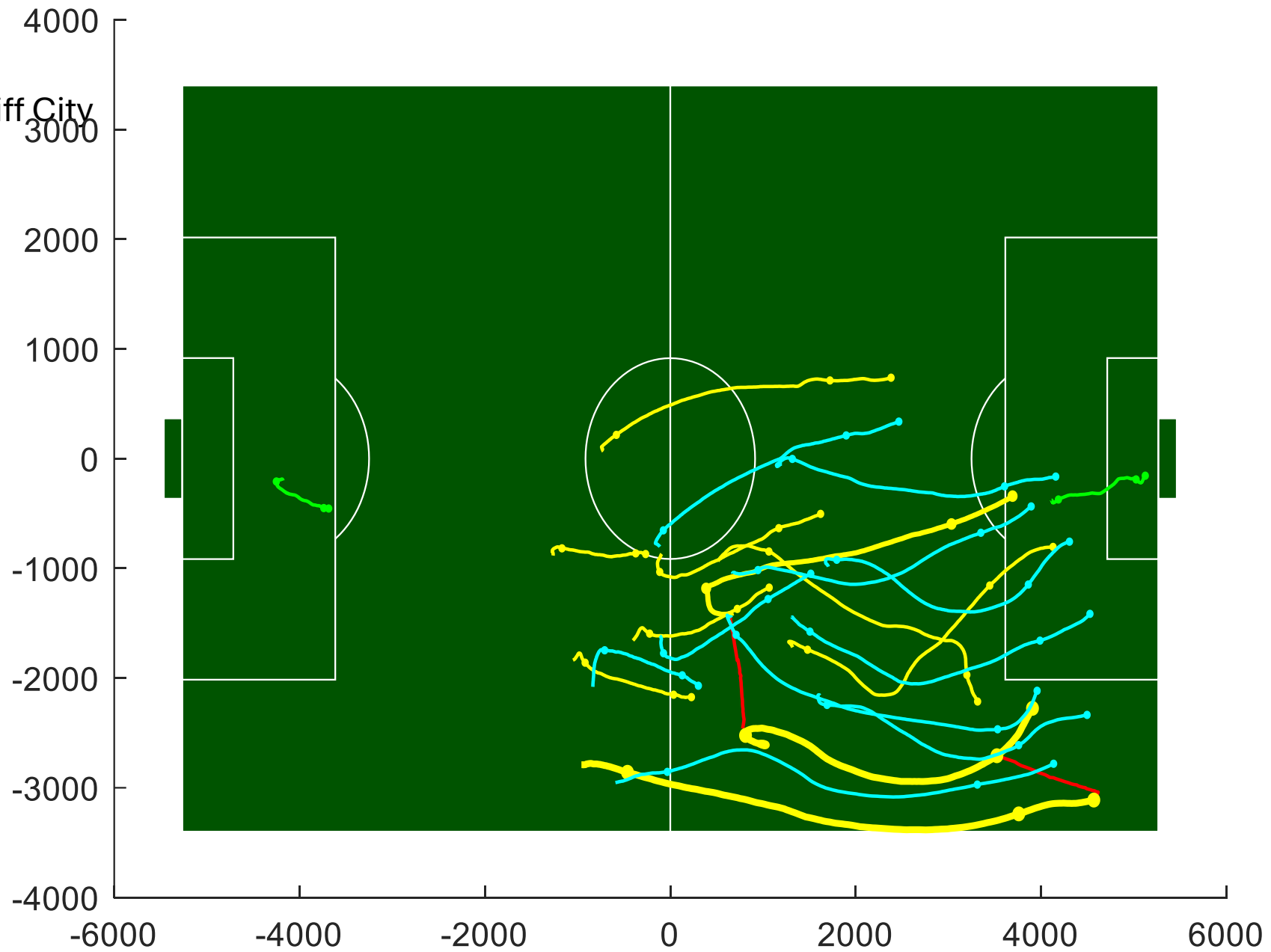
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Millwall v Cardiff City



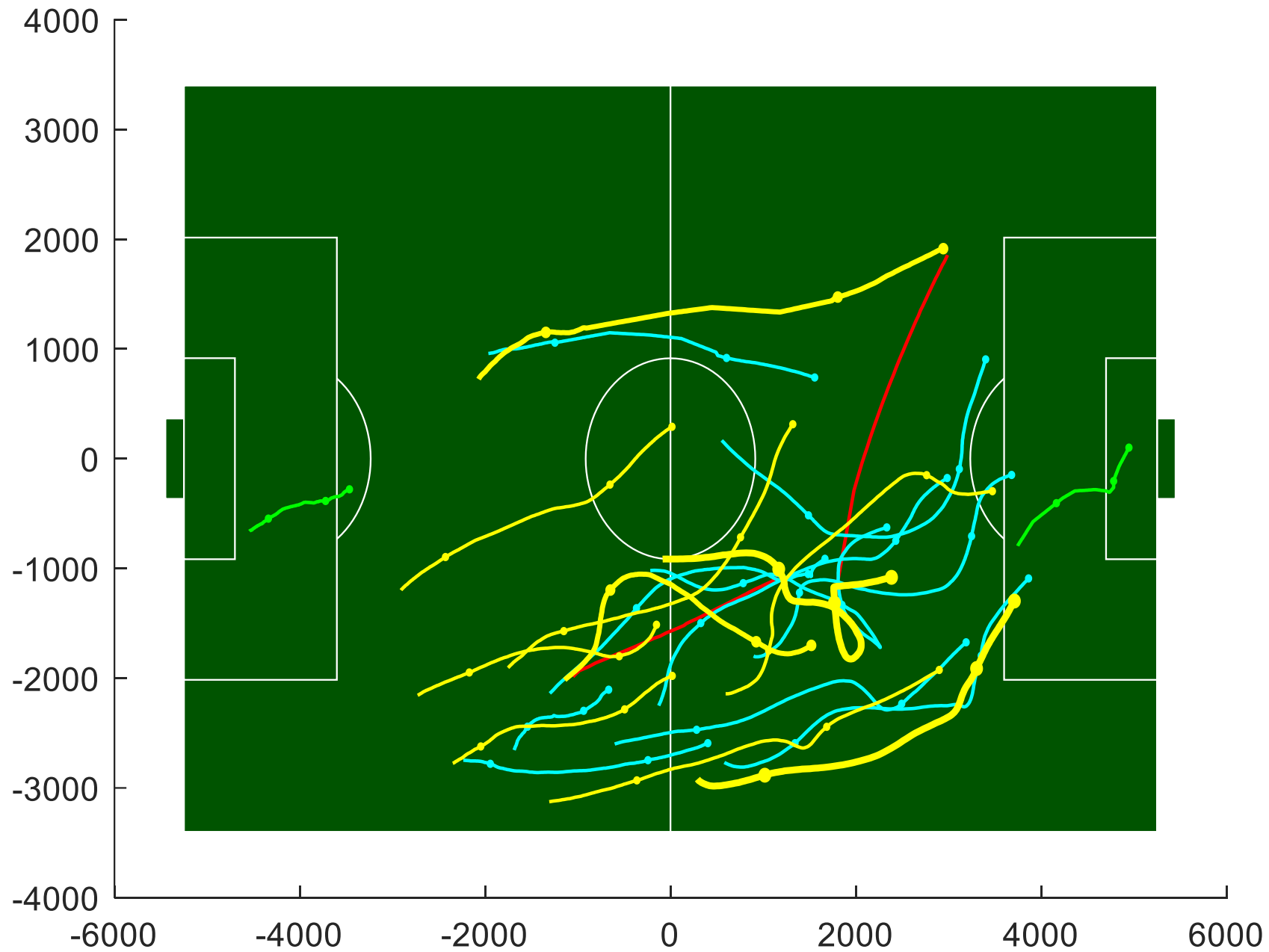
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Millwall v Cardiff City



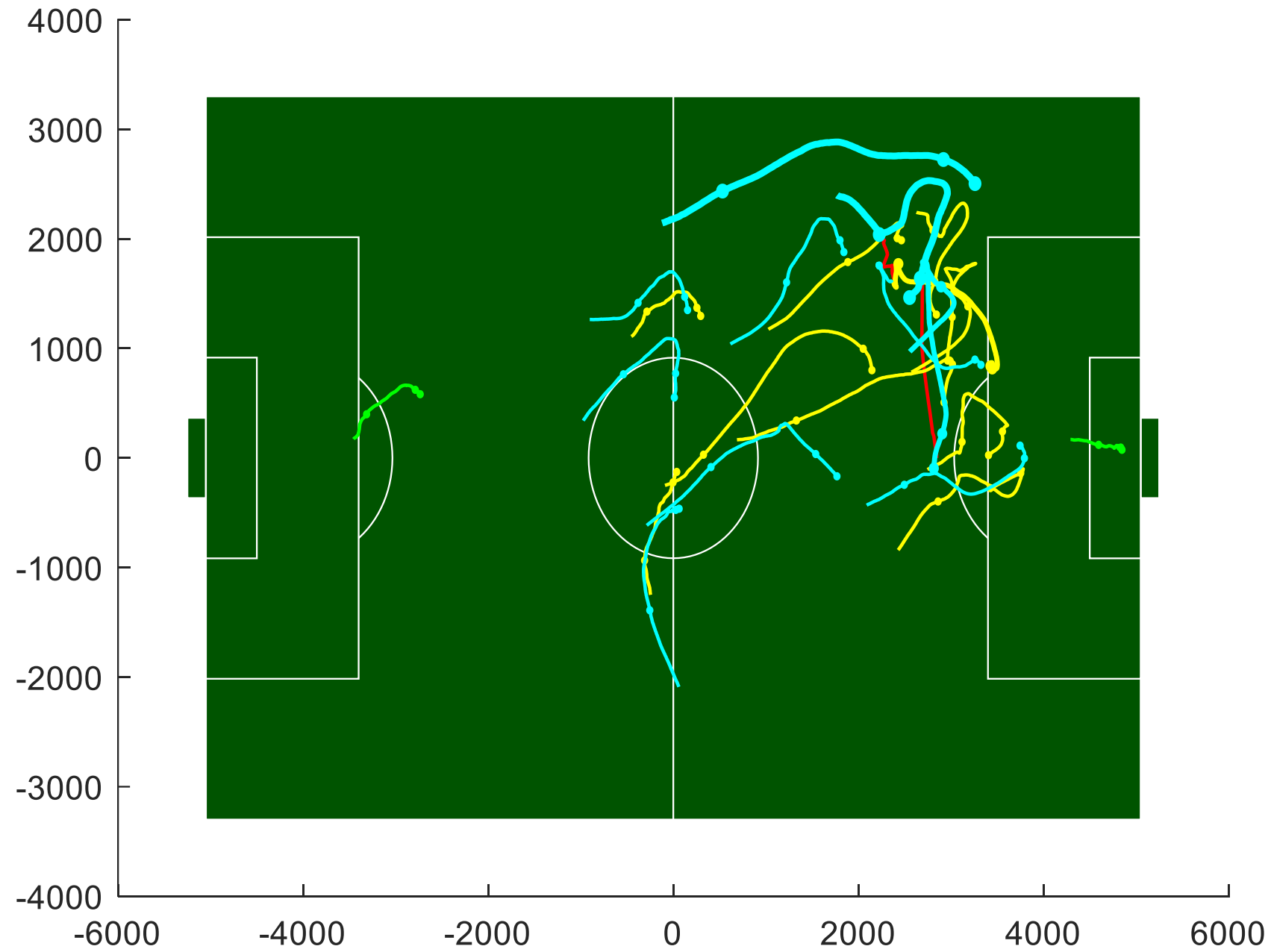
1442
Millwall v Cardiff City



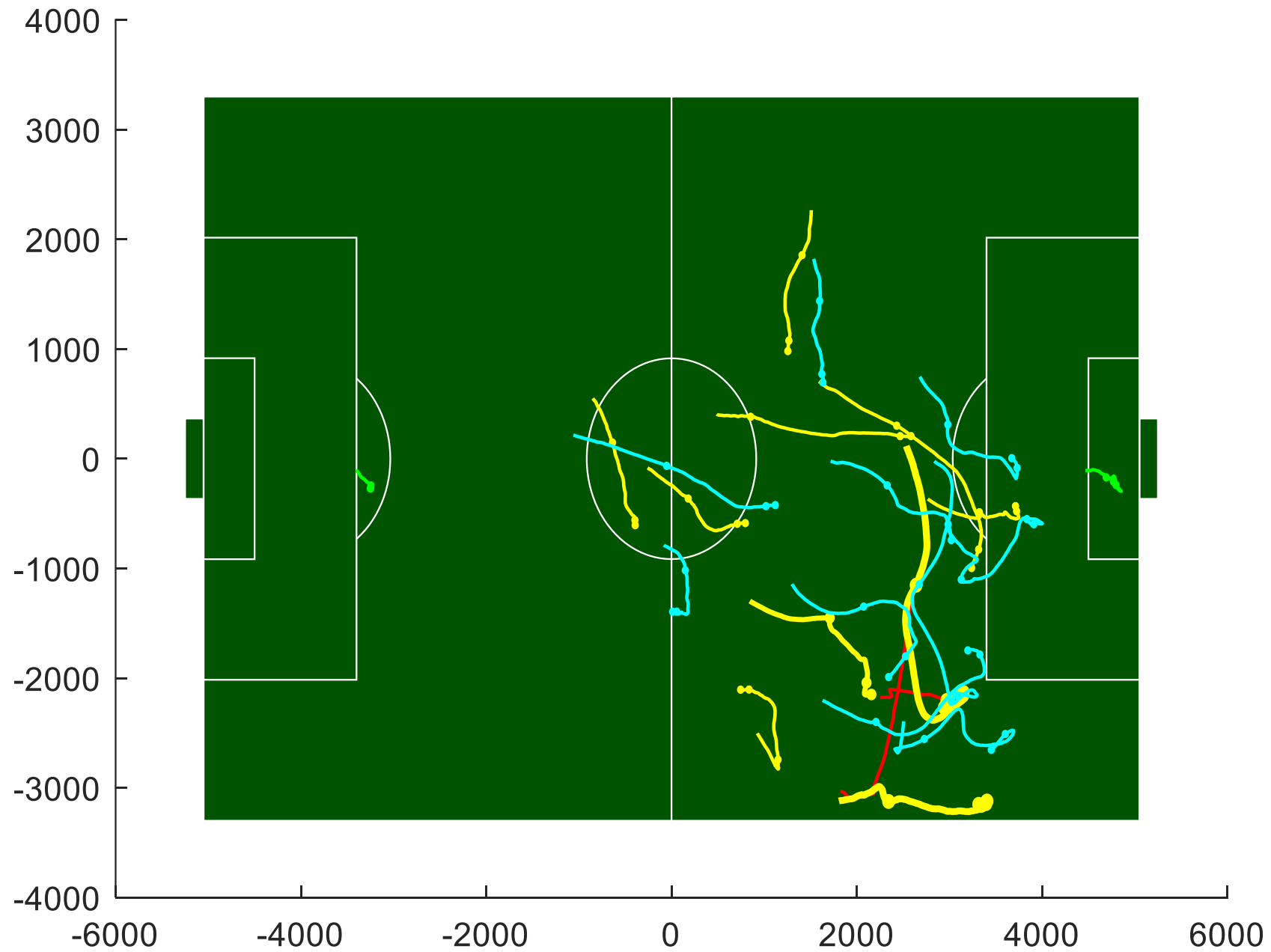
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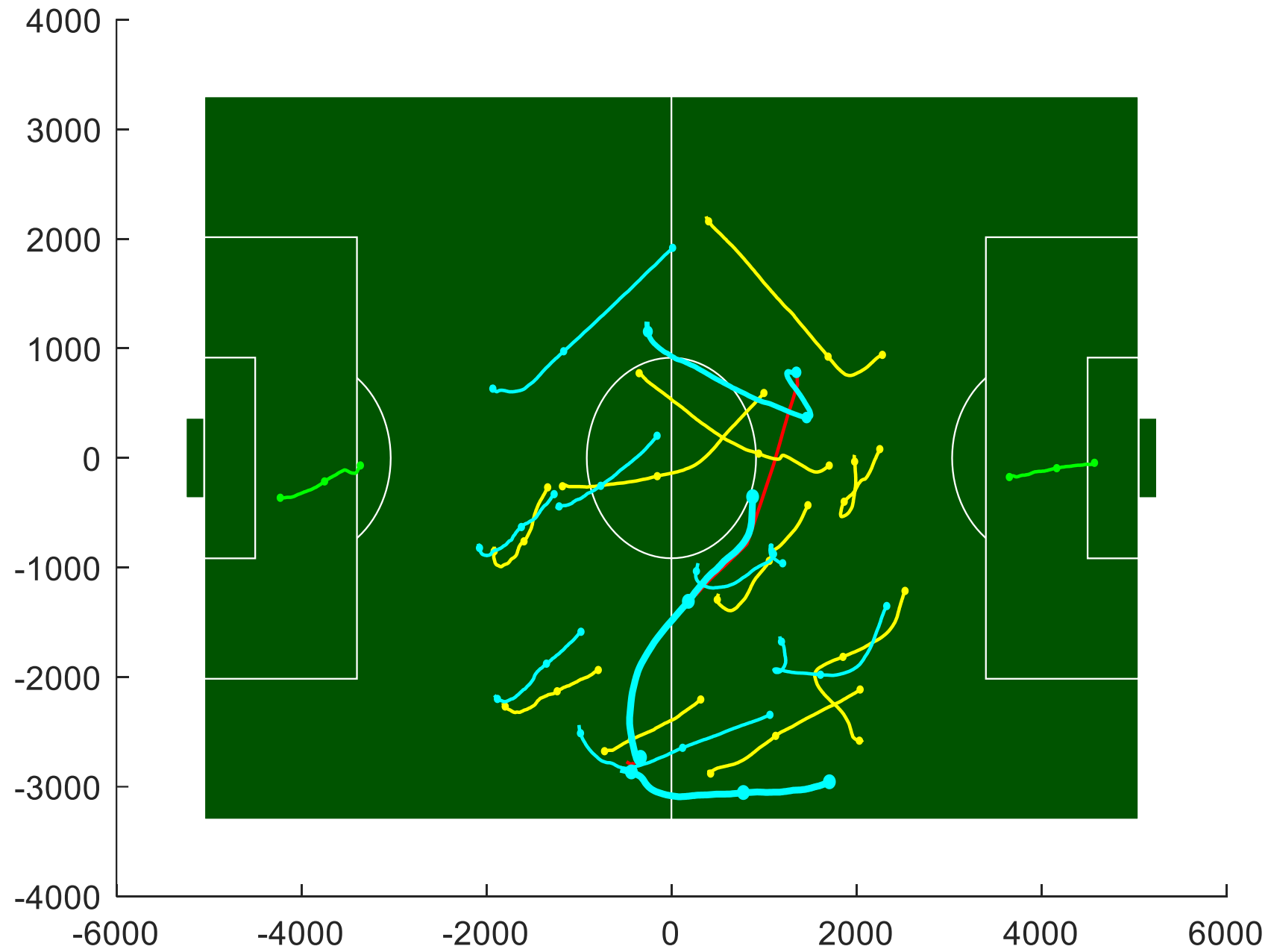
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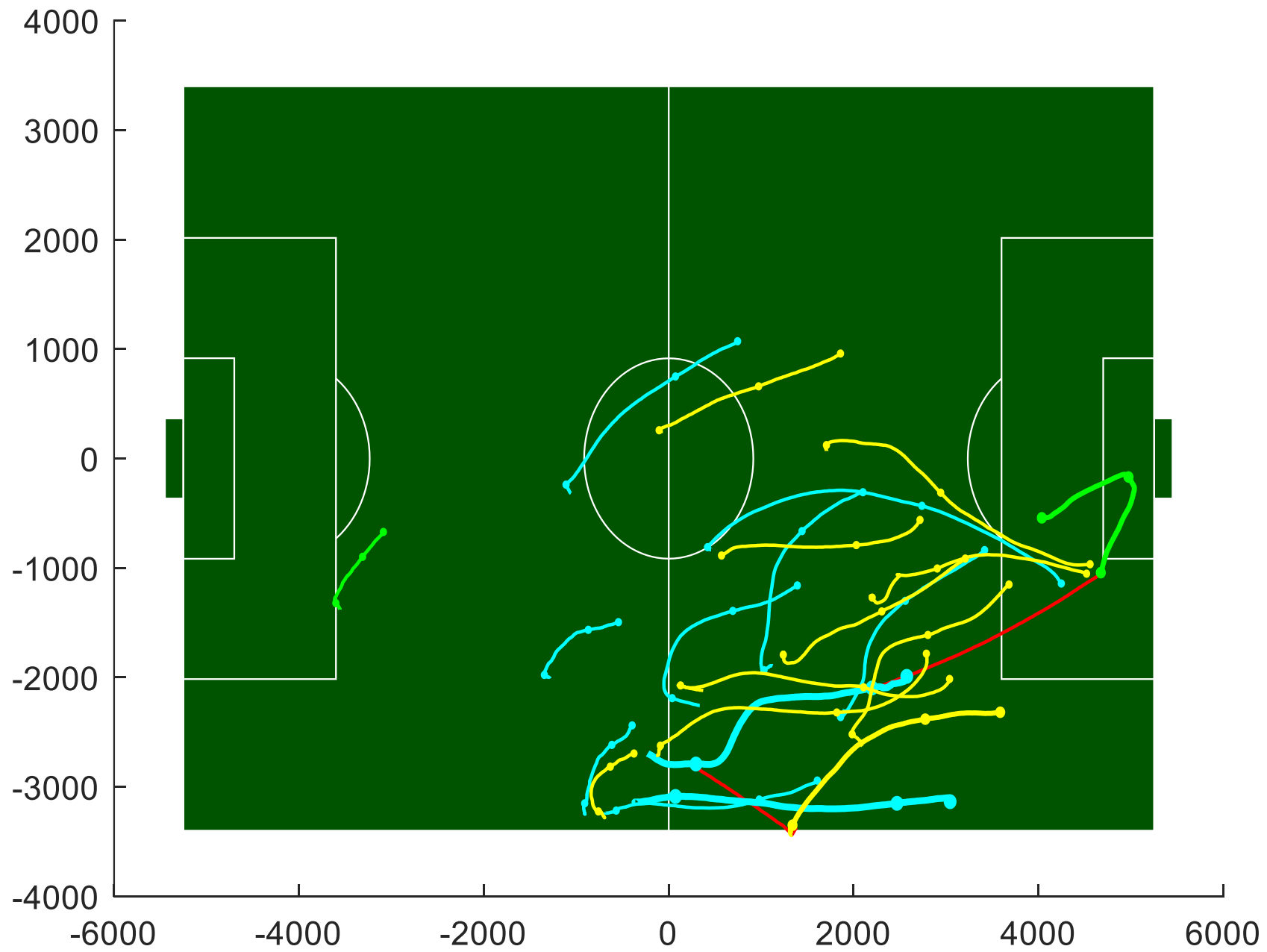
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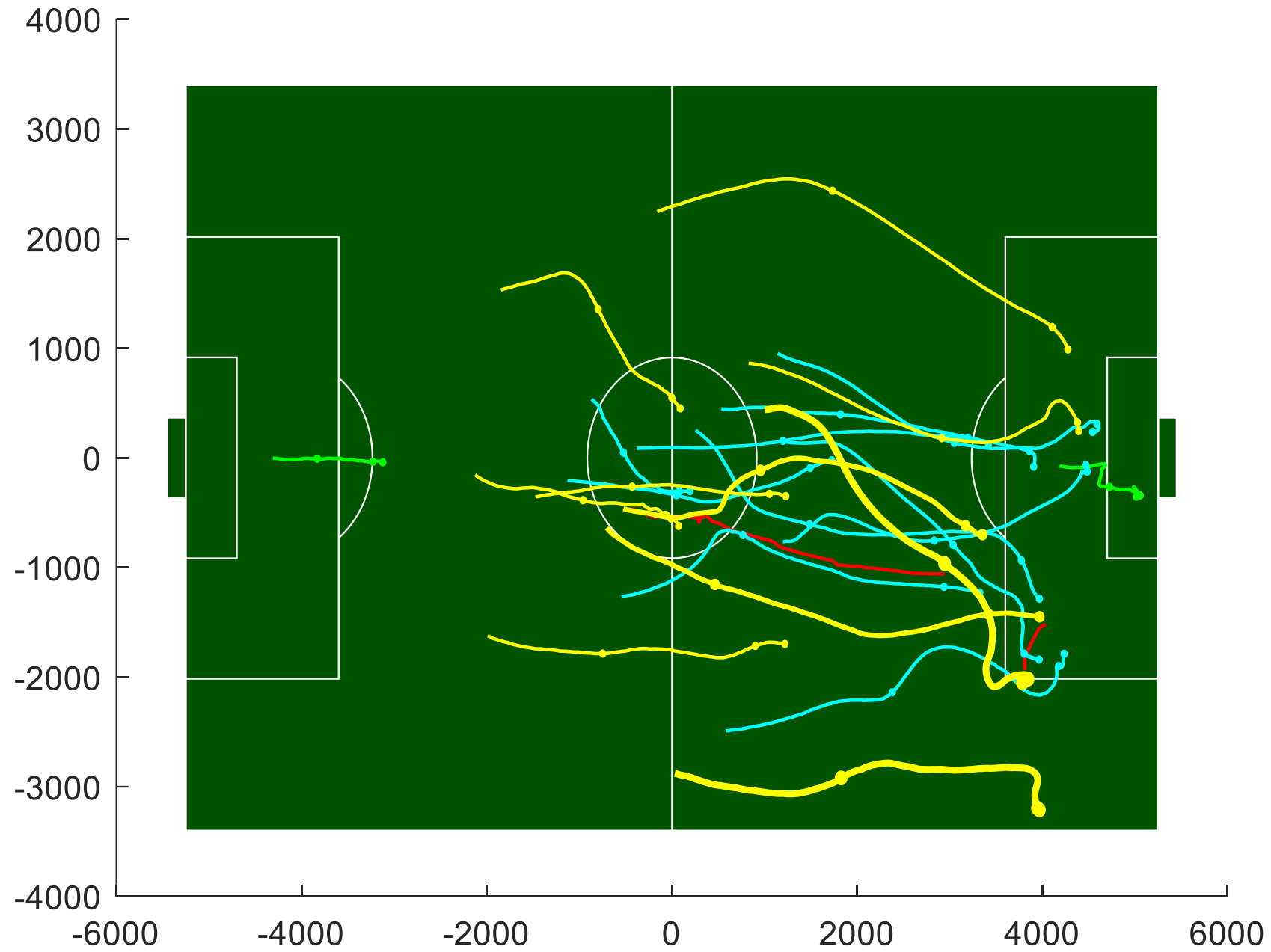
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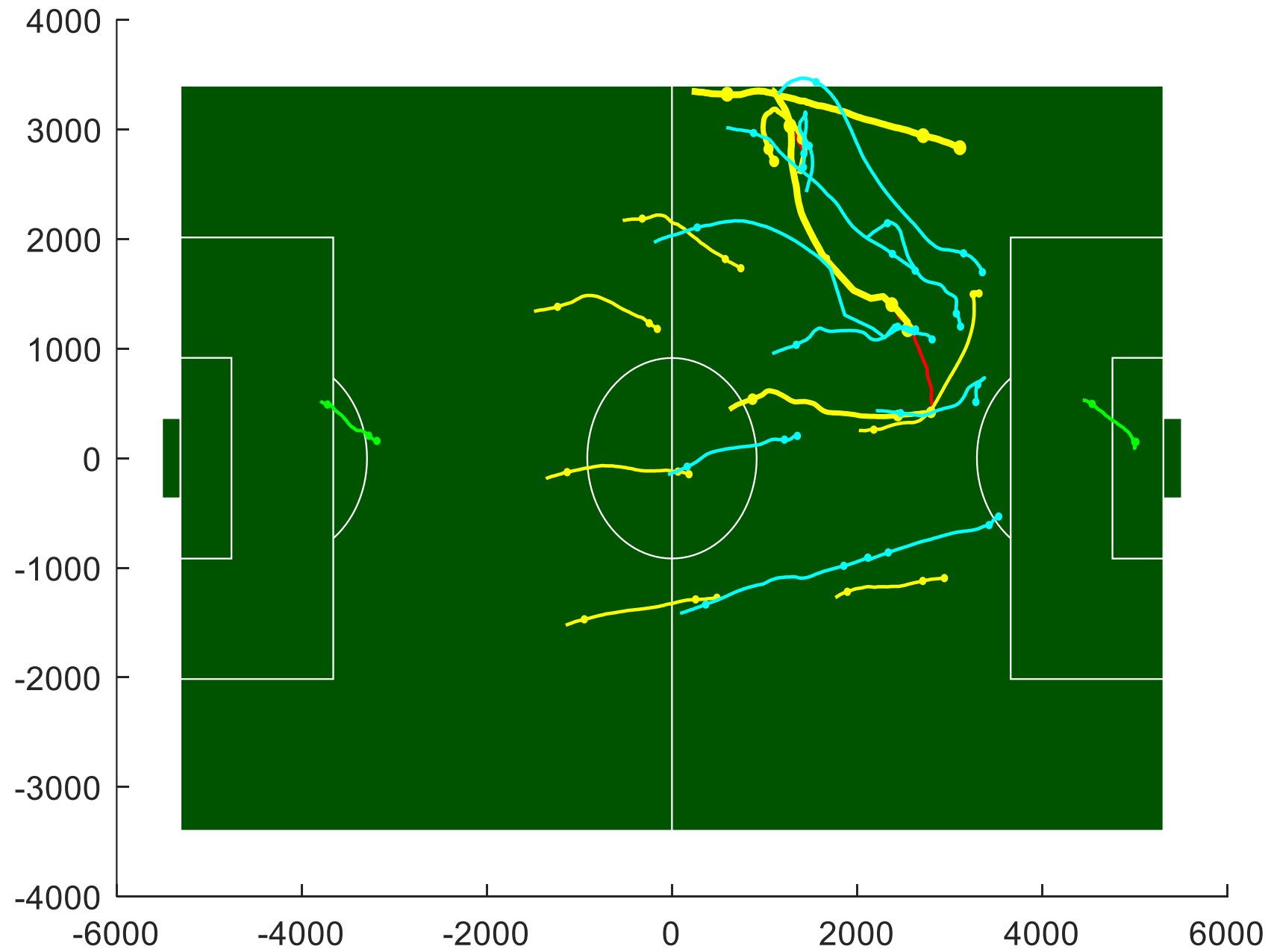
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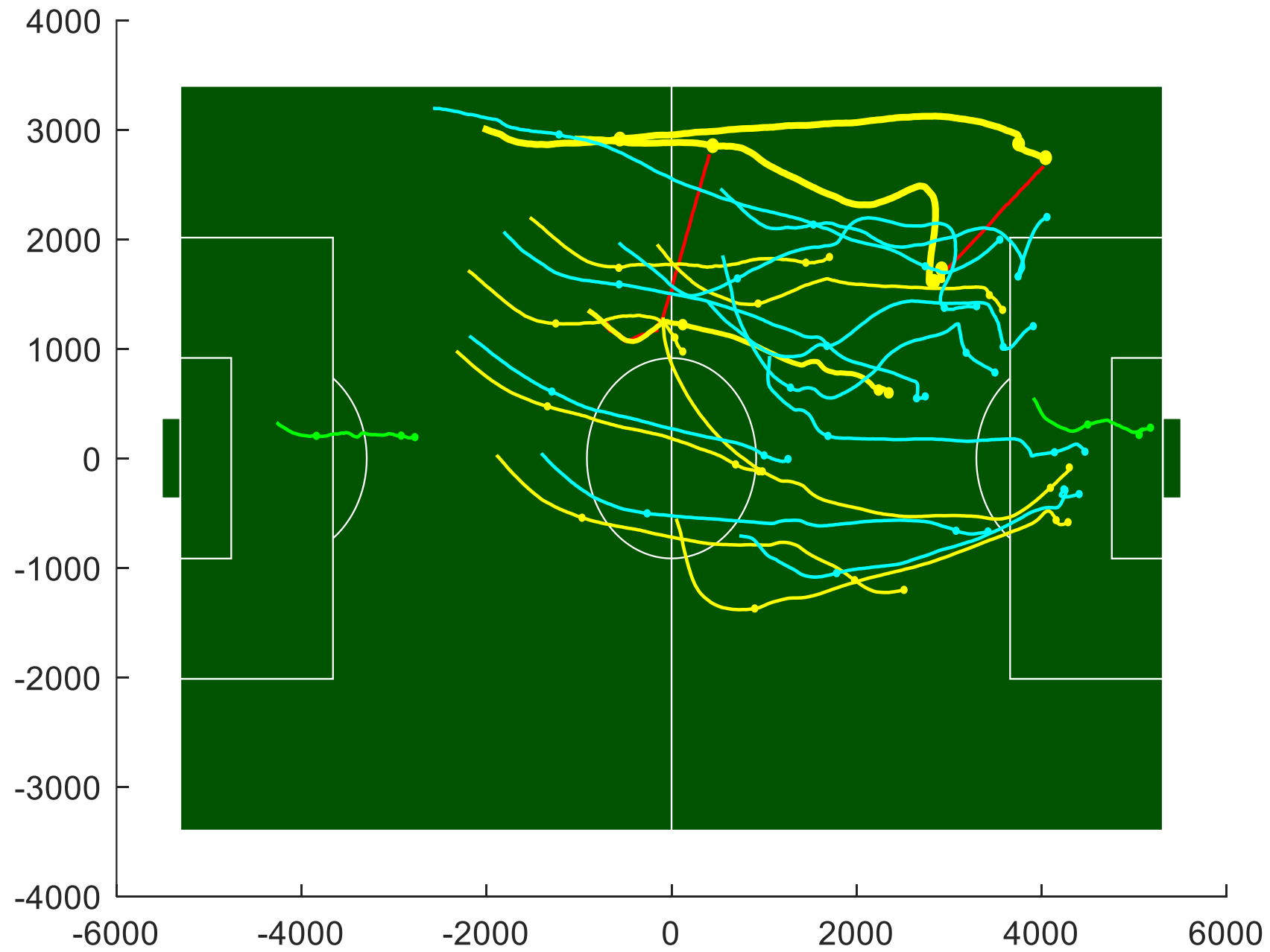
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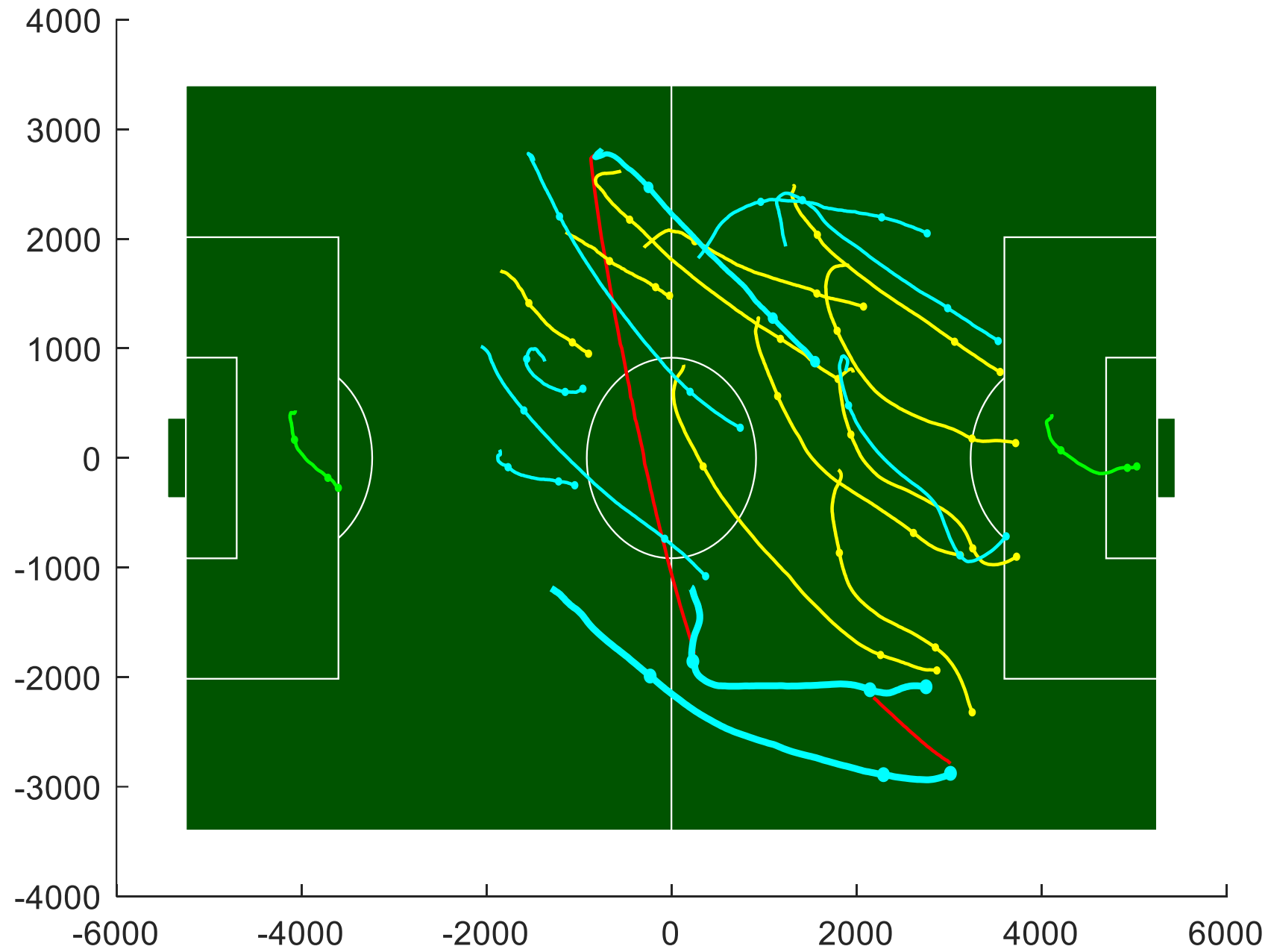
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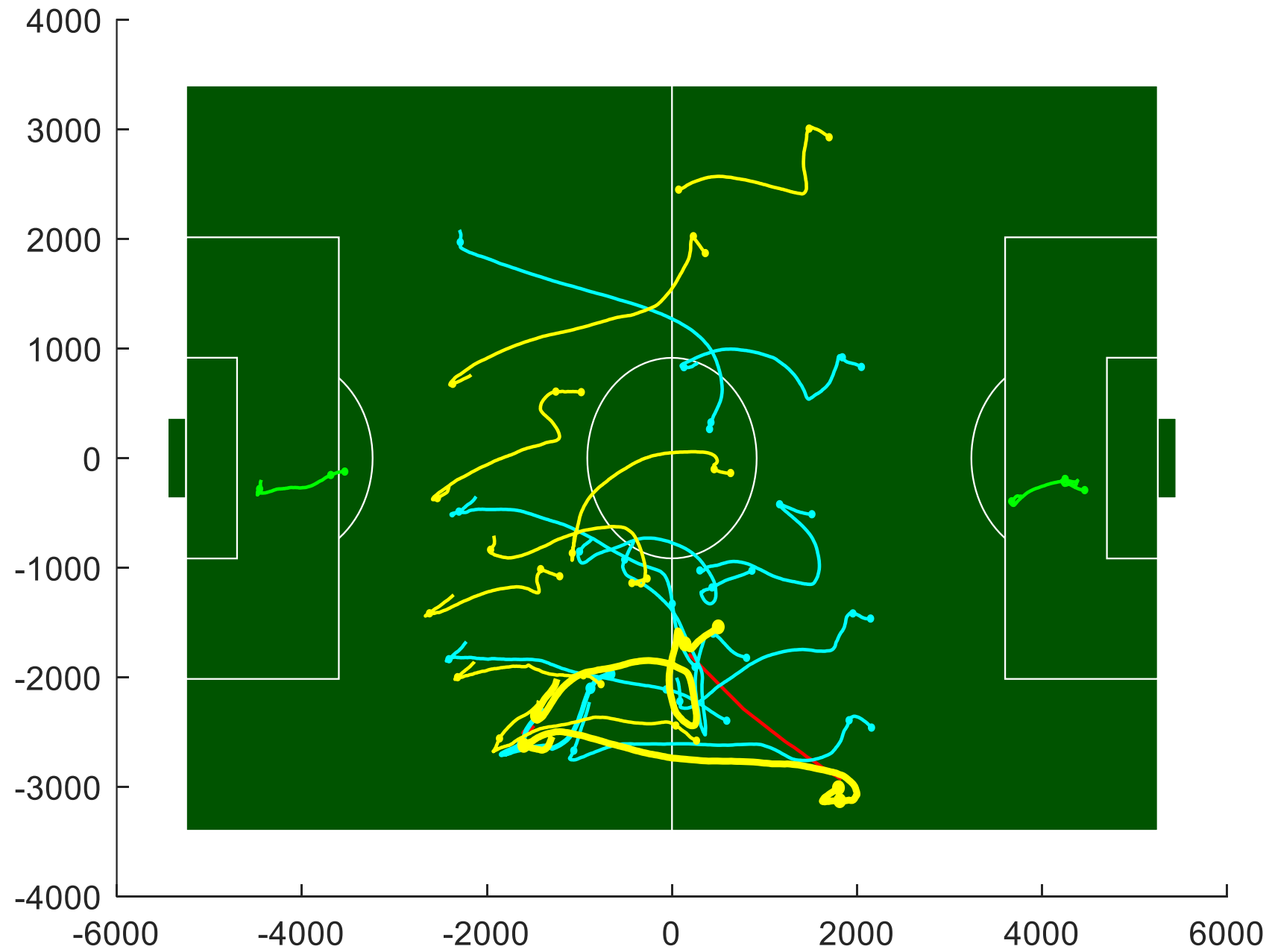
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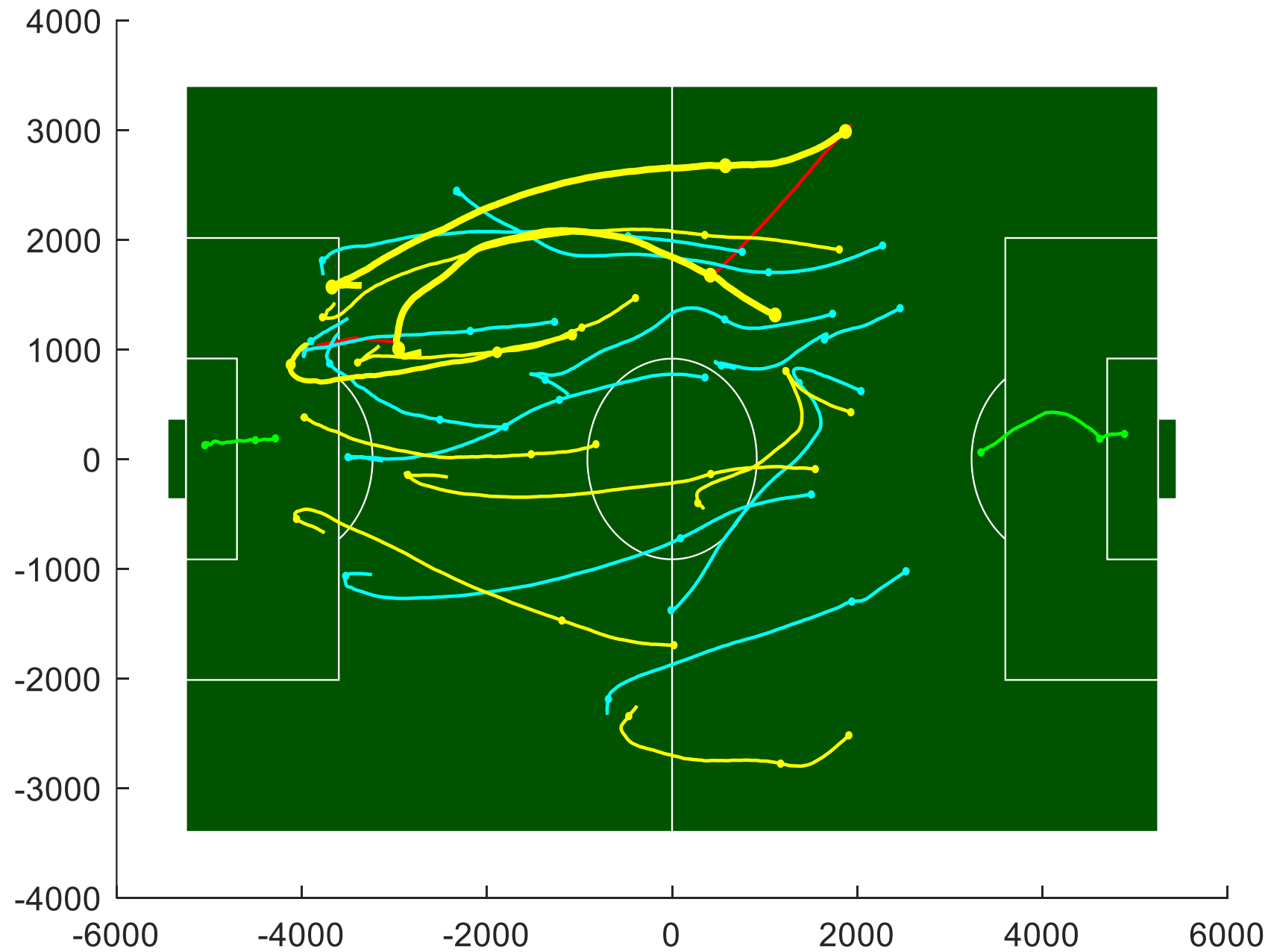
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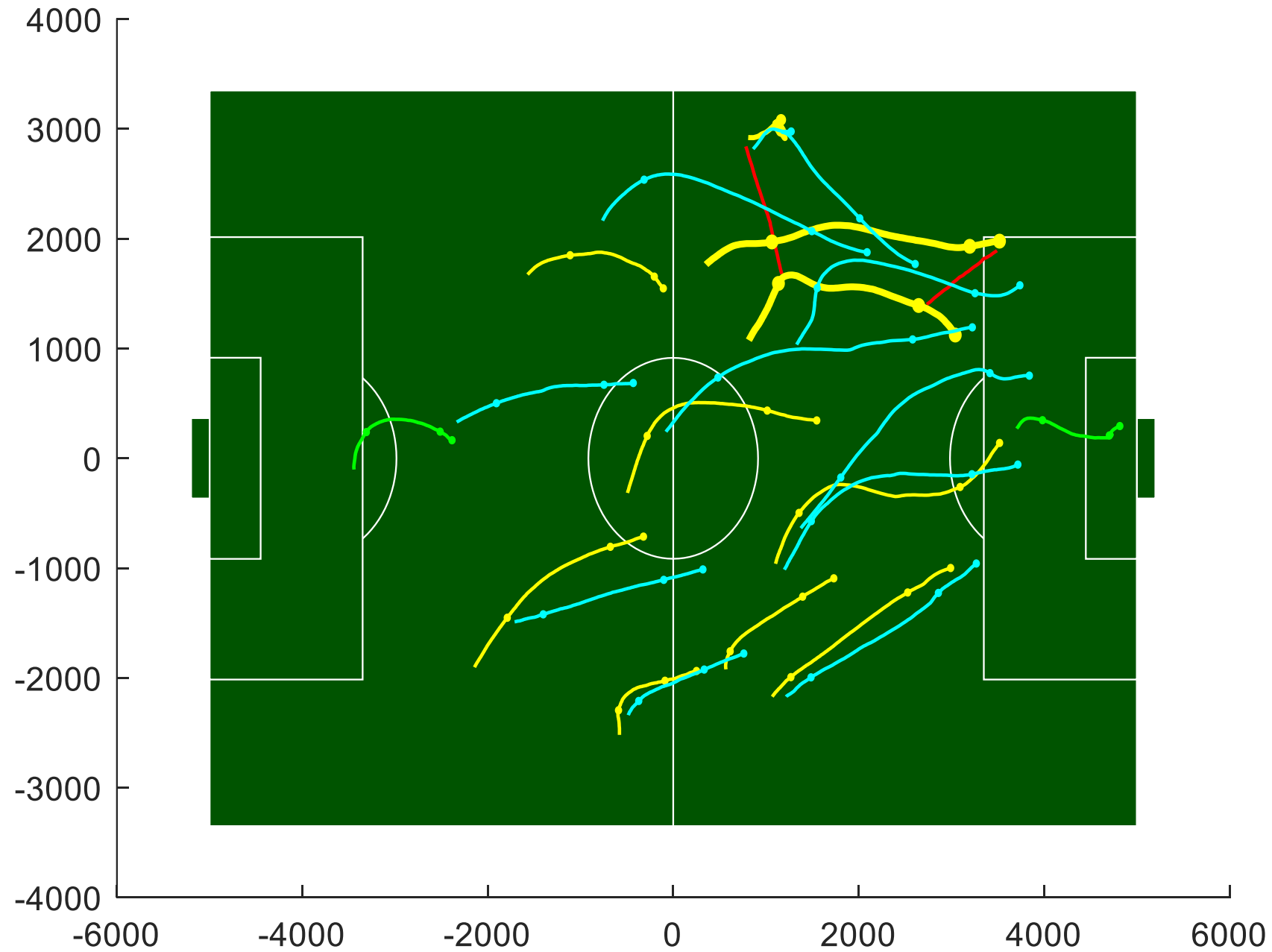
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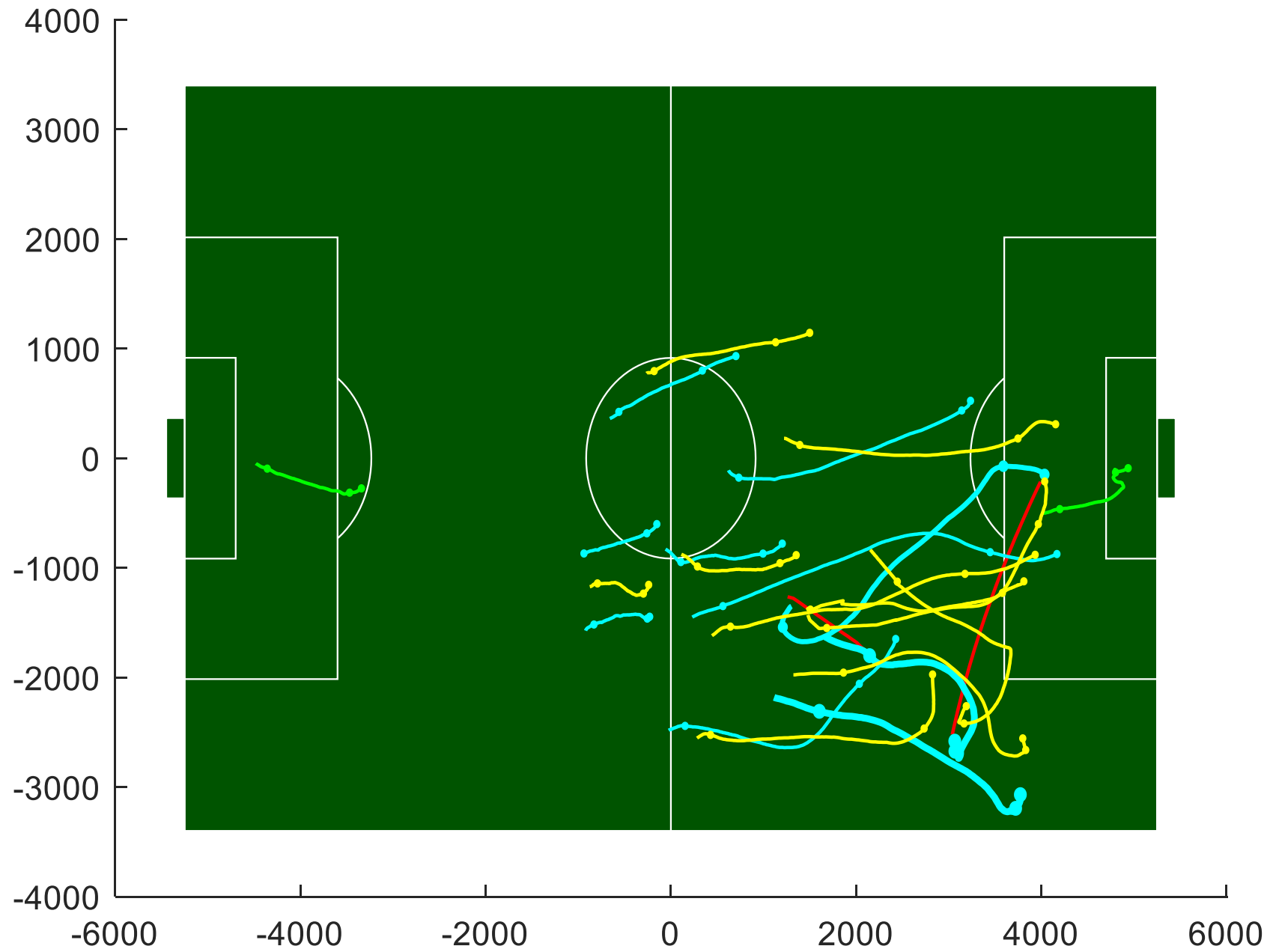
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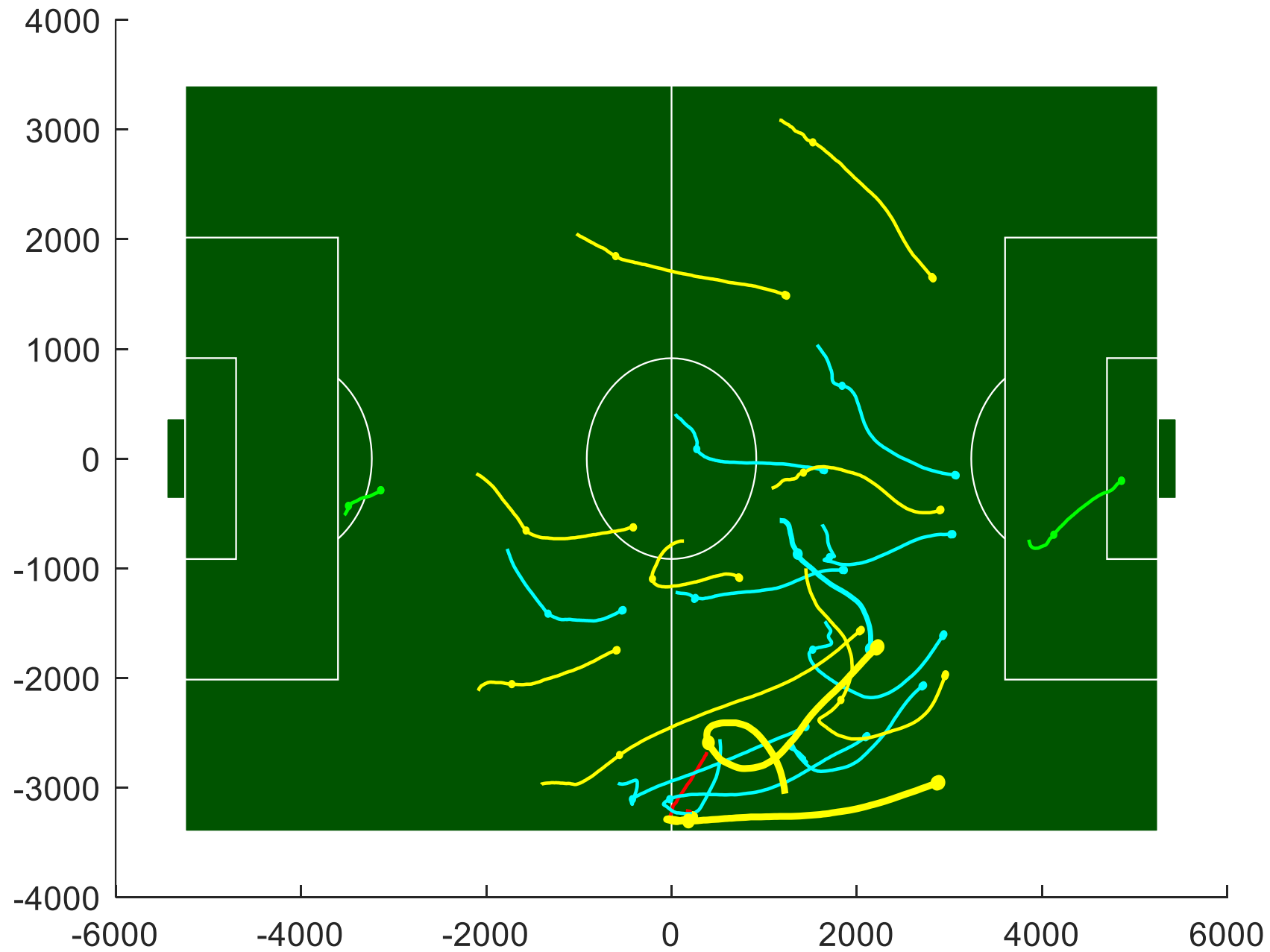
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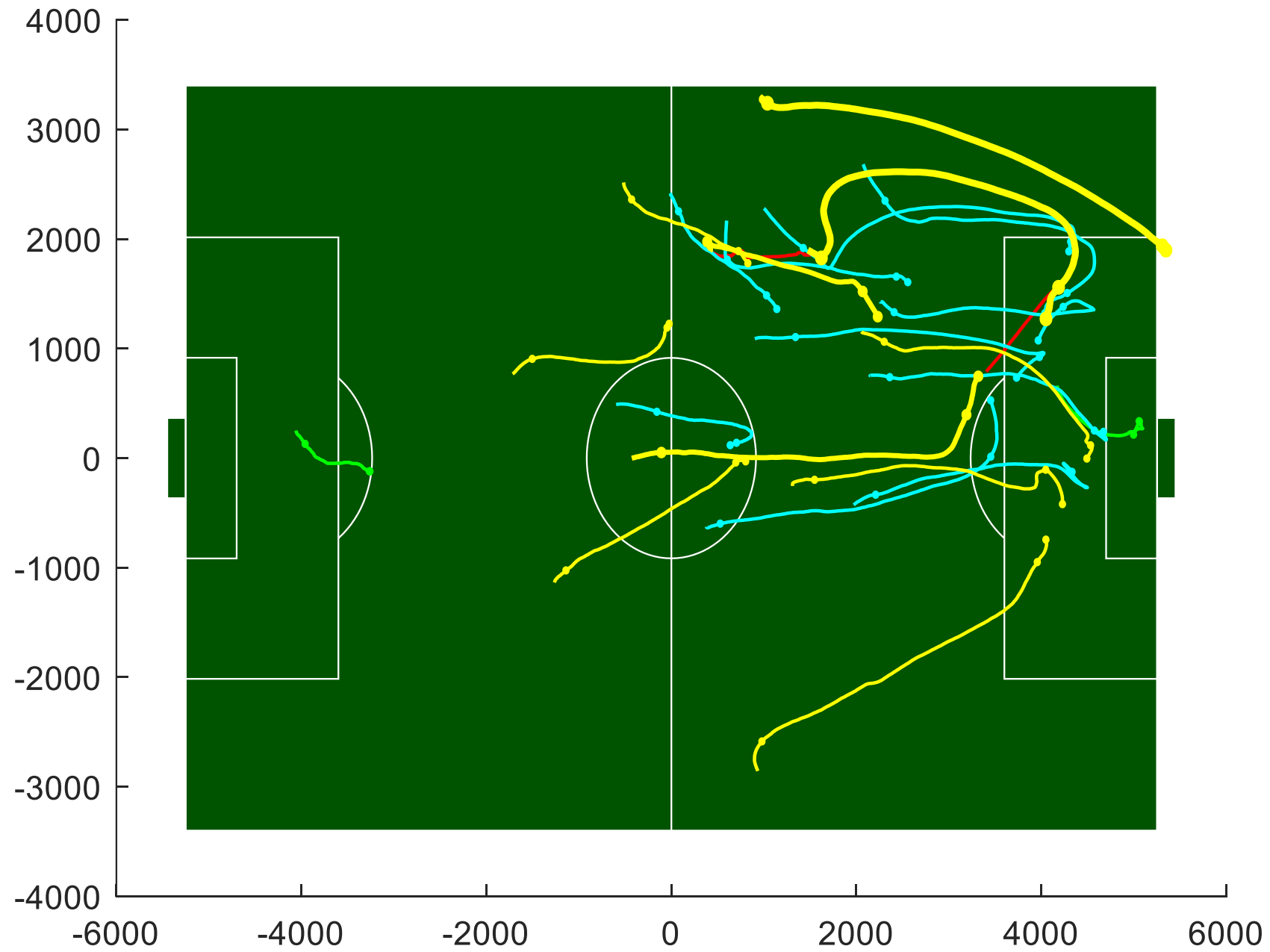
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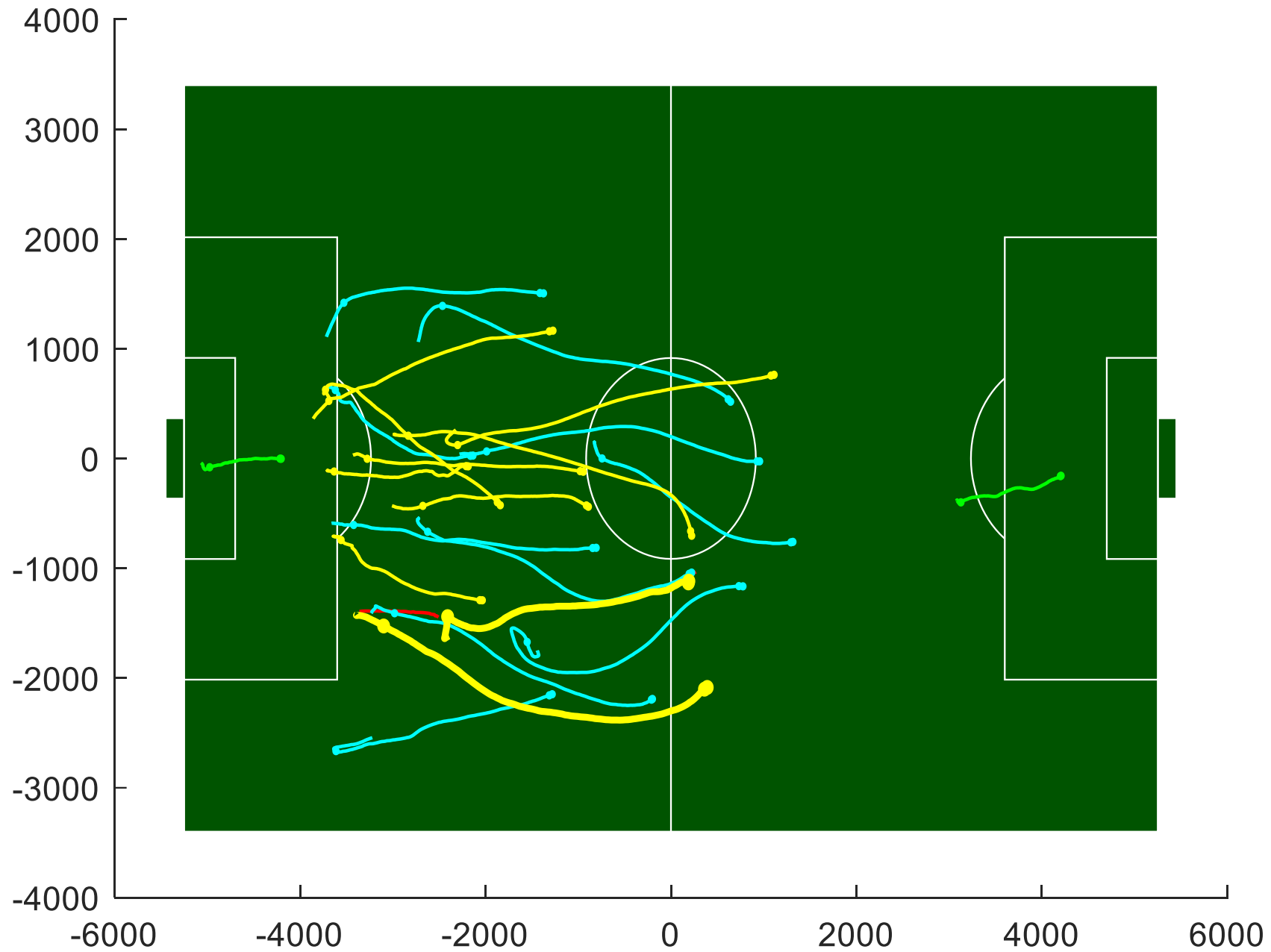
3777



3990



4191



Questions

- Should we add any additional criteria to avoid some of the false positive cases ?
- Should we change or exclude some criteria so that more cases are identified ?
- Why not simply tag when an overlap run occurs ourselves ?