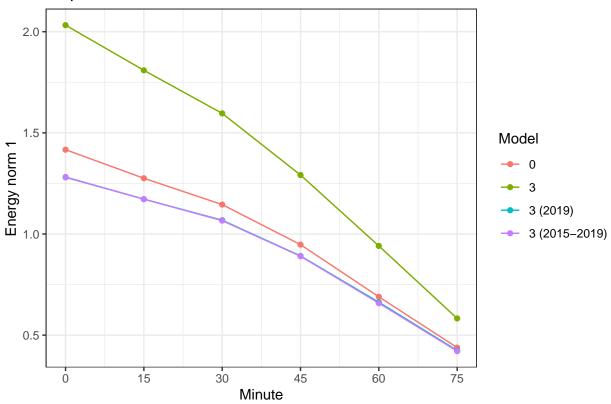
Energy norm 1

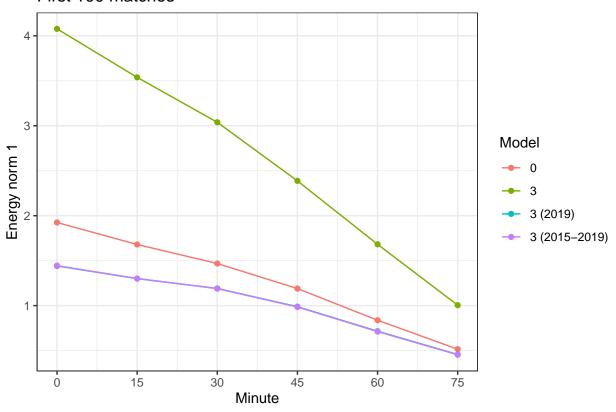
```
library(dplyr)
library(ggplot2)
library(tidyr)
library(knitr)
load("data/HDA2.RData")
nrow(HDA2)
## [1] 350
all = tibble(ENERG1 = apply(HDA2[,c(129:152)], 2, mean),
             Minute = as.integer(rep(c(0, 15, 30, 45, 60, 75), 4)),
            Model = factor(c(rep("0", 6), rep("3", 6), rep("3 (2019)", 6),
                              rep("3 (2015-2019)", 6)),
                            levels = c("0", "3", "3 (2019)", "3 (2015-2019)")))
all %>%
  ggplot(aes(x = Minute, y = ENERG1, col = Model)) +
  geom_line() +
  geom_point() +
  scale_x_continuous(breaks = c(0, 15, 30, 45, 60, 75)) +
  theme_bw() +
  ggtitle("All predicted matches") +
  ylab("Energy norm 1")
```





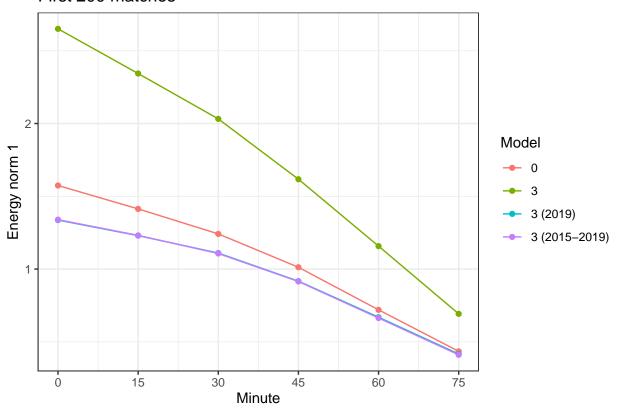
| Model | Minute 0 | Minute 15 | Minute 30 | Minute 45 | Minute 60 | Minute 75 |
|---------------|----------|-----------|-----------|-----------|-----------|-----------|
| 0 | 1.416731 | 1.275500 | 1.145464 | 0.9474226 | 0.6896969 | 0.4384210 |
| 3 | 2.032316 | 1.809181 | 1.596261 | 1.2916162 | 0.9409667 | 0.5827161 |
| 3(2019) | 1.280258 | 1.172301 | 1.068218 | 0.8915819 | 0.6627024 | 0.4243915 |
| 3 (2015-2019) | 1.281747 | 1.172376 | 1.066107 | 0.8900828 | 0.6580866 | 0.4209386 |

First 100 matches



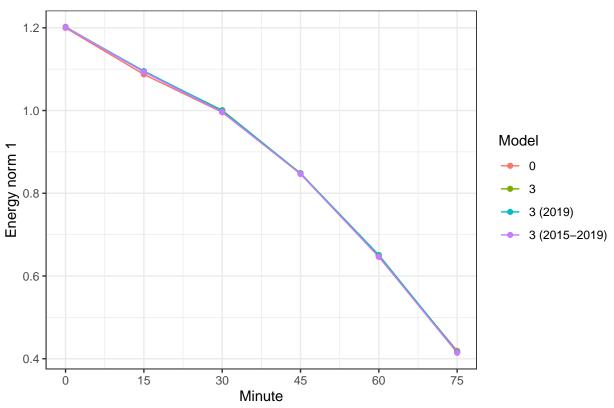
| Model | Minute 0 | Minute 15 | Minute 30 | Minute 45 | Minute 60 | Minute 75 |
|---------------|----------|-----------|-----------|-----------|-----------|-----------|
| 0 | 1.924594 | 1.679907 | 1.468576 | 1.1898810 | 0.8380468 | 0.5154891 |
| 3 | 4.077620 | 3.538322 | 3.038754 | 2.3873376 | 1.6819023 | 1.0050816 |
| 3(2019) | 1.441326 | 1.300169 | 1.191182 | 0.9884599 | 0.7157695 | 0.4568464 |
| 3 (2015-2019) | 1.444636 | 1.301959 | 1.188916 | 0.9849995 | 0.7113664 | 0.4532568 |

First 200 matches



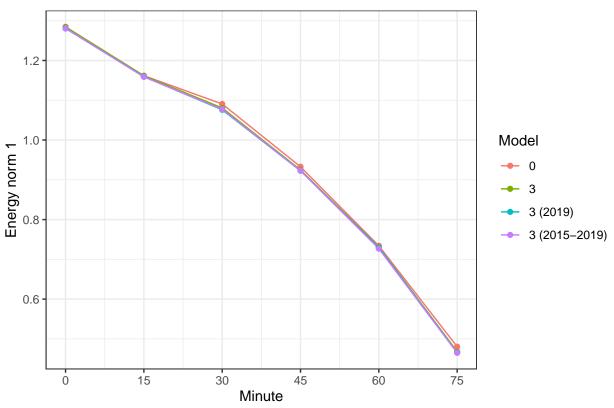
| Model | Minute 0 | Minute 15 | Minute 30 | Minute 45 | Minute 60 | Minute 75 |
|-------------------------|----------|-----------|-----------|-----------|-----------|-----------|
| 0 | 1.574287 | 1.413491 | 1.241729 | 1.0125934 | 0.7199628 | 0.4346901 |
| 3 | 2.650623 | 2.343613 | 2.031910 | 1.6174486 | 1.1576741 | 0.6922046 |
| 3(2019) | 1.336716 | 1.229686 | 1.109857 | 0.9169231 | 0.6690643 | 0.4160890 |
| $\frac{3(2015-2019)}{}$ | 1.339462 | 1.231521 | 1.106970 | 0.9145600 | 0.6635769 | 0.4108334 |

Last 200 matches



| Model | Minute 0 | Minute 15 | Minute 30 | Minute 45 | Minute 60 | Minute 75 |
|---------------|----------|-----------|-----------|-----------|-----------|-----------|
| 0 | 1.199849 | 1.087348 | 0.9957940 | 0.8486737 | 0.6461170 | 0.4190861 |
| 3 | 1.202347 | 1.093527 | 1.0009215 | 0.8480606 | 0.6506796 | 0.4166904 |
| 3(2019) | 1.201644 | 1.095384 | 0.9994241 | 0.8476594 | 0.6500358 | 0.4159374 |
| 3 (2015-2019) | 1.201479 | 1.093465 | 0.9963420 | 0.8464626 | 0.6464974 | 0.4142601 |

Last 100 matches



| Model | Minute 0 | Minute 15 | Minute 30 | Minute 45 | Minute 60 | Minute 75 |
|-------------------------|----------|-----------|-----------|-----------|-----------|-----------|
| 0 | 1.284627 | 1.161783 | 1.090716 | 0.9327373 | 0.7340294 | 0.4804622 |
| 3 | 1.284209 | 1.161353 | 1.080553 | 0.9246842 | 0.7307545 | 0.4679582 |
| 3(2019) | 1.280551 | 1.159389 | 1.076009 | 0.9227410 | 0.7296558 | 0.4654888 |
| $\frac{3(2015-2019)}{}$ | 1.281158 | 1.158814 | 1.077323 | 0.9227840 | 0.7269314 | 0.4649406 |