研究报告

Fung Hsi eh 2004

80%

10

Equity Market Factor

$R_m - R_f$

The Size Spread Factor

SMB

The Bond Market Factor 10

The Credit Spread Factor BBA

10

Bond Trend-Following Factor PTFS

Currency Trend-Following Factor PTFS

Commodity Trend-Following Factor PTFS

Fung Hsieh 2004

$$\begin{aligned}
 & \text{HML} & \text{MOM} & \text{MKT} & \text{SMB} \\
 & \text{CBMB10} & & \text{BOND10} & \\
 & \text{FUTURES} & & \text{BOND_RET} & \\
 1. & & \text{MKT} & & \\
 & & & 300 & \\
 & 1 & & & 1 \\
 & \text{RET_HS300}_t & t & 300 & \\
 \text{RF}_t & t & 1 & & \\
 2. & \text{SMB} & & & \\
 & \text{SMB} & & & \\
 & \text{Fama-French} & & \text{SMB} &
 \end{aligned}$$

1 SMB

1 SMB

		BE/ME		
		30%	40%	30%
ME	50%			
	50%			

6

T 6

T+1 6

A

T 6

T 7

T 6

SMB

2

Small Value_t Small Neutral_t Small Growth_t

Big Value_t Big Neutral_t Big Growth_t

t Fama-French SMB

BE/ME

3. HML

HML

Fama-French

HML

SMB

HML

3

Small Value_t Big Value_t Small Growth_t
 Big Growth_t t
 Fama-French HML

Size

4.

MOM

MOM

2

2015-01

A

ME

Small Group

Big Group

1 11

30% 40% 30%

Down Group

Median

Group

Up Group

2

Small Up Group

Small Median Group

Small Down Group

Big Up Group

Big Median Group

Big Down Group

A

2

2 MOM

		1 11		
		30%	40%	30%
ME	50%			
	50%			

MOM

Small Up_t Big Up_t Small Down_t Big Down_t
t

5. BOND10

BOND10 10

t 10

6. CBMB10

7. BOND_RET

Fung Hsi eh 2004

8.

FUTURES

16

en-05X11Vp, CH[

t > ,°

,°!

r>Å

2002 > 1 6p . +gÄ CBt ^ 0cM6p°
 C- U CB \$° mb € K-TMB > e
 2002 6 SMBÇ HML MOM 2008 6 CBMB10Ç
 OND_RET 2002 6 CBMB10 2008 6 FUTURES
 2005 6>
 3
 MKT SMB =r
 t HML pent BOND10 CBMB10
 BOND_RET Å 8p 0LY FUTURES ,°

EG3eÄ MKT, \$. / E. 06Bn t MOM

BOND_RET

0.69%

3

2000-2016

		%	%	Q1 %	%	Q3 %	%	%

3

MKT

300

2002

MKT

2002

1

2016

12

1.85

85%

3 MKT

4

SMB

2000

SMB

2016

658%

4 SMB

5

HML

2000

2016

HML

-10%

2000

2008

HML

2008

HML

5 HML

6

MOM

2000 2007 7 2010 MOM
 2010 2014
 MOM 2014 6
 2016 12 MOM
 2016 6 -46% 2016
 MOM -47%

6 MOM

7 BOND10
 2002 BOND10
 2016 12 BOND10 -6% f03_AfMOMf0UM

7 BOND10

8 CBMB10

10 2008

2008

2016

12

83%

8 CBMB10

9 BOND_RET

2002

2002

2016

12

16%

9 BOND_RET

10

FUTURES

2005

2011

2016

12

38%

10 FUTURES

()

24 1 2016 12
2
3

4
4 2190
73.1% 10.5%
7.9%

4

		%

SMB_t HML_t MDM_t $BOND10_t$
 $CBMB10_t$ $BOND_RET_t$ $FUTURES_t$ t

1

1- 8

()

6

7

R^2

55.0%

42.5%

40%-50%

CTA

24.4%

MKT

0.514

BOND_RET

SMB

0.988 0.283

6

FUND BY FUND

					Q1		Q3		

					Q1		Q3		

BOND10_t CBMB10_t BOND_RET_t FUTURES_t t

1

1- 8

()

8

R² 73.9%

60.6%

57.6%

CTA

CTA

CTA

CTA

R² 3.7%

MKT

SMB

0.51 0.44

MKT

0.18

BOND10 CMCB10 BOND_RET

CTA

FUTURES

9

						CTA