Contents

1 Introduction **1**

2 Risk-Taking in Tournaments with Correlated Outcomes **11**

2.1 Introduction 11

2.2 Theoretical Analysis 13

2.2.1 The Model 13

2.2.2 Equilibrium Analysis 14

2.3 Experimental Design and Procedure 20

2.4 Hypotheses 22

2.5 Results 24

2.6 Conclusion 30

2.7 Appendix to Chapter 2 31

3 Risk-Taking and Effort in Tournaments with Homogeneous Agents **45**

3.1 Introduction 45

3.2 Theoretical Analysis 47

3.2.1 The Model 47

3.2.2 Equilibrium Analysis 48

3.3 Experimental Design and Procedure 50

3.4 Hypotheses 53

3.5 Results 54

3.6 Discussion 64

3.7 Conclusion 67

3.8 Appendix to Chapter 3 69

4 Risk-Taking and Effort in Tournaments with Heterogeneous Agents **83**

4.1 Introduction 83

4.2 The Game 86

4.3 Discouragement Effect, Cost Effect and Likelihood Effect . . . 90

4.4 Experimental Design and Procedure 93

4.5 Hypotheses 95

4.6 Experimental Results 97

4.6.1 The Risk Stage 97

4.6.2 The Effort Stage 99

4.7 Discussion 103

4.8 Conclusion 105

4.9 Appendix to Chapter 4 107

5 Management Changes, Career Concerns and Earnings Management **129**

5.1 Introduction 129

5.2 The Model 131

5.3 Equilibrium Analysis 133

5.4 Empirical Evidence and Testable Implications 136

5.5 Conclusion 138

5.6 Appendix to Chapter 5 139

Bibliography **142**

List of Tables

2.1 Probit regressions for leading players in treatment 1 25
2.2 Probit regressions for treatment 2 27
2.3 Probit regression for leading players in treatment 3 29
2.4 Distribution of strategy choices for all treatments 33
2.5 Probit regressions for leading players in treatment 1, marginal effects reported 33
2.6 Probit regressions with random effects for leading players in treatment 1 34
2.7 Probit regressions for leading players in treatment 1 controlling for risk attitude 34
2.8 Probit regressions for treatment 2, marginal effects reported . 35
2.9 Probit regressions with random effects for treatment 2 35
2.10 Probit regressions for treatment 2 controlling for risk attitude 36
2.11 Probit regression for leading players in treatment 3, marginal effects reported 37
2.12 Probit regression with random effects for leading players in treatment 3 37
2.13 Probit regression for leading players in treatment 3 controlling for risk attitude 38

3.1 Regressions for effort dependent on state 55
3.2 One sample mean comparison test 56
3.3 Regressions for effort dependent on choice of risk of the players 60
3.4 Mean and standard deviation difference between player's belief and partner's effort 61

3.5 Mean of difference between effort and theoretical effort by state and subperiod 63
3.6 Regressions for choice of effort dependent on state 71
3.7 Fraction of the risk attitude of the players 72
3.8 Wilcoxon matched-pairs signed rank test for condition 2a and 2b 73
3.9 Regressions for choice of effort dependent on choice of risk of the players 73
3.10 Regressions for belief dependent on state 74
3.11 Regressions for choice of risk dependent on the risk attitude of the players 75
3.12 Cost table 81

4.1 Results on risk-taking 98
4.2 Results on effort choices 101
4.3 Results on effort comparisons 102
4.4 Comparison of the favorite's risk choices over treatments . . . 109
4.5 Probit regression Hypothesis 4: Comparison of the favorite's risk-taking in the cost and discouragement treatment 110
4.6 Probit regression Hypothesis 5: Comparison of the favorite's risk-taking in the discouragement and the likelihood treatment 111
4.7 Probit regression Hypothesis 6: Comparison of the favorite's risk-taking in the cost and likelihood treatment 112
4.8 Effort choices in the discouragement treatment high risk . . . 113
4.9 Effort choices in the discouragement treatment low risk 114
4.10 Effort choices in the discouragement treatment pooled data . . 115
4.11 Effort choices in the cost treatment high risk 116
4.12 Effort choices in the cost treatment low risk 117
4.13 Effort choices in the cost treatment pooled data 118
4.14 Effort choices in the likelihood treatment high risk 119
4.15 Effort choices in the likelihood treatment low risk 120
4.16 Effort choices in the likelihood treatment pooled data 121
4.17 Probit regression Hypothesis 7: Discouragement treatment . . 122

4.18 Probit regression Hypothesis 7: Cost treatment 123
4.19 Probit regression Hypothesis 7: Likelihood treatment 124

List of Figures

2.1 Nash Equilibria of the game 19
2.2 Equilibrium mixed strategies if rho=1 23
2.3 Choice of risk for each treatment 24
2.4 Choice of the risky strategy for different leads in treatment 1 26
2.5 Choice of risk in treatment 2 36
2.6 Normal Distribution 42
2.7 Correlation coefficient of zero 43
2.8 Correlation coefficient of one 43
2.9 Correlation coefficient of 0.5 44

3.1 Mean of effort and standard deviation sorted by state 54
3.2 Fraction of the choice of state for two subperiods 58
3.3 Mean of effort and standard deviation sorted by state with state 2 divided in state 2a and state 2b 59
3.4 Mean of difference between belief of the player and effort of partner by state 62
3.5 Histogram of the risk attitude of the players 71
3.6 Mean of effort sorted by state and subperiods 72
3.7 Reaction function 74
3.8 State A (low variance) 79
3.9 State B (high variance) 80
3.10 Overview of both distributions 80
3.11 Costfunction 82

4.1 Discouragement effect 91
4.2 Likelihood effect 92

4.3 Comparison of the favorite's risk choices over treatments . . . 109
4.4 Effort choices in the discouragement treatment high risk . . . 113
4.5 Effort choices in the discouragement treatment low risk 114
4.6 Effort choices in the discouragement treatment pooled data . . 115
4.7 Effort choices in the cost treatment high risk 116
4.8 Effort choices in the cost treatment low risk 117
4.9 Effort choices in the cost treatment pooled data 118
4.10 Effort choices in the likelihood treatment high risk 119
4.11 Effort choices in the likelihood treatment low risk 120
4.12 Effort choices in the likelihood treatment pooled data 121