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The case of the bi-polar
chess queen ^[3]

PolarChess,

a [WinBoard](#) compliant chess engine, written at [70° 4' 24" N](#), 3° 30' 40" north the [Arctic Circle](#) in [Vadsø](#) ^[1], [Finnmark country](#), [Norway](#) , by [Odd Gunnar Malin](#) in [C++](#), first released in November 2001 ^[2]. PolarChess, version 1.2 as [open source](#), includes the PolarEngine package with [search](#) and [evaluation](#) decoupled from the [board representation](#). It has a [0x88](#) board, and applies [alpha-beta](#) with [transposition table](#) and [null move pruning](#) inside an [iterative deepening](#) framework with [aspiration windows](#). [Checks](#), [pawn moves to the 7th rank](#), and [mate threatening moves](#) are [extended](#), [killer-](#) and [history heuristic](#) help to [order moves](#). [Evaluation](#) counts [material](#) aware of the [bishop pair](#) and trade bonuses for pieces if ahead and pawns if behind, and positionally considers [pawn structure](#) utilizing a [pawn hash table](#), [passed pawns](#), [mobility](#), [rook on open file](#), [bad bishop](#), and [pawn shield](#) for [king safety](#) to name the most important terms.

PolarChess played the [CCT4](#) and [CCT5](#) tournaments.

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Selected Games

[CCT4](#), round 4, [PolarChess](#) - [Warlord](#) ^[4] ^[5]

```
[Event "CCT4"]
[Site "Internet Chess Club"]
[Date "2002.01.20"]
[Round "4"]
[White "PolarChess"]
[Black "Warlord Beta V1"]
[Result "1-0"]
```

```
1.e4 Nf6 2.e5 Ne4 3.d3 Nc5 4.d4 Ne6 5.d5 Nc5 6.Qd4 e6 7.d6 cxd6 8.exd6
  Qb6
9.Qc3 a5 10.Bf4 f6 11.Na3 e5 12.Nb5 Bxd6 13.Nxd6+ Qxd6 14.Be3 b6 15.Rd
  1 Qc6
16.Bxc5 bxc5 17.Be2 Bb7 18.Bf3 e4 19.Be2 d5 20.Nh3 Qb6 21.Nf4 d4 22.Qh
  3 Nd7
23.Ng6 Rg8 24.Qxh7 Qe6 25.b3 Nf8 26.Bb5+ Kf7 27.Qh5 Nxg6 28.Bc4 Qxc4 2
  9.bxc4
Rac8 30.Rb1 Ba8 31.Rb6 Rh8 32.Qf5 Rhe8 33.O-
O Ne5 34.Ra6 Kg8 35.Rxa5 e3
36.fxe3 dxe3 37.Re1 Rcd8 38.Qh5 g6 39.Qh4 Rd2 40.Rxe3 Red8 41.Rxc5 Rxg
  2+
42.Kf1 Rd1+ 43.Re1 Rxe1+ 44.Qxe1 Rxh2 45.Qb4 Rh1+ 46.Kf2 Rh2+ 47.Kg3 R
  g2+
48.Kh3 Kf7 49.Qa3 Be4 50.Rxe5 fxe5 51.Qe3 Bb7 52.Qxe5 Rxc2 53.Qc7+ Kf6
  54.Qxb7
Rc3+ 55.Kg2 Rc2+ 56.Kf3 Rc3+ 57.Ke4 Rxc4+ 58.Kd3 Rh4 59.Qc6+ Kg7 60.Qc
  7+ Kh6
61.Qe5 Rh3+ 62.Ke4 Rh4+ 63.Kf3 Ra4 64.Qh8+ Kg5 65.Qd8+ Kh6 66.Qf8+ Kh5
  67.Qf7
```

Ra3+ 68.Kf2 Ra4 69.Qd5+ Kh4 70.Qh1+ Kg4 71.Qd1+ 1-0

See also

- [Amundsen](#)
- [Geography](#)
- [Siberian Chess](#)

Forum Posts

- [PolarChess](#) by [Odd Gunnar Malin](#), [Winboard Forum](#), November 26, 2001
- [PolarChess](#) by [Odd Gunnar Malin](#), [Winboard Forum](#), December 19, 2001

External Links

Chess Engine

- [Chess and Data](#) - [WaybackMachine](#)
- [PolarChess](#) from [WBEC Ridderkerk](#)
- [PolarChess 1.3](#) in [CCRL 40/4](#)

Misc

- [Polar \(disambiguation\)](#) from Wikipedia
- [Pole and polar](#) from Wikipedia
- [Polar coordinate system](#) from Wikipedia
- [Polar set](#) from Wikipedia
- [Polar question](#) from Wikipedia
- [Polar circle](#) from Wikipedia
- [Polaris](#)
- [Polar Star \(novel\)](#) from Wikipedia
- Anne Pacey's Circles - Tundra, [Marseille Jazz des Cinq Continents](#), July 21, 2015 , [YouTube](#) Video
[Anne Pacey](#), [Leïla Martial](#), [Christophe Panzani](#), [Tony Paeleman](#)

References

1. [^] [Vadsø, Norway - Sunrise, sunset, dawn and dusk times for the whole year - Gaisma](#)
2. [^] [PolarChess](#) from [WBEC Ridderkerk](#)
3. [^] [THE CASE OF THE BI-POLAR CHESS QUEEN: A Short Story | Flickr - Fotosharing!](#) by [Robert Huffstutter](#)
4. [^] [CCT4 - PGN-Download](#) hosted by [Volker Richey](#)

5. [^ PolarChess just beat Warlord](#) by [William H. Rogers](#), [CCC](#), January 20, 2002

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